



Columbia University  
in the City of New York

BARNARD COLLEGE

CATALOGUE

1901-1902

ANNOUNCEMENT

1902-1903





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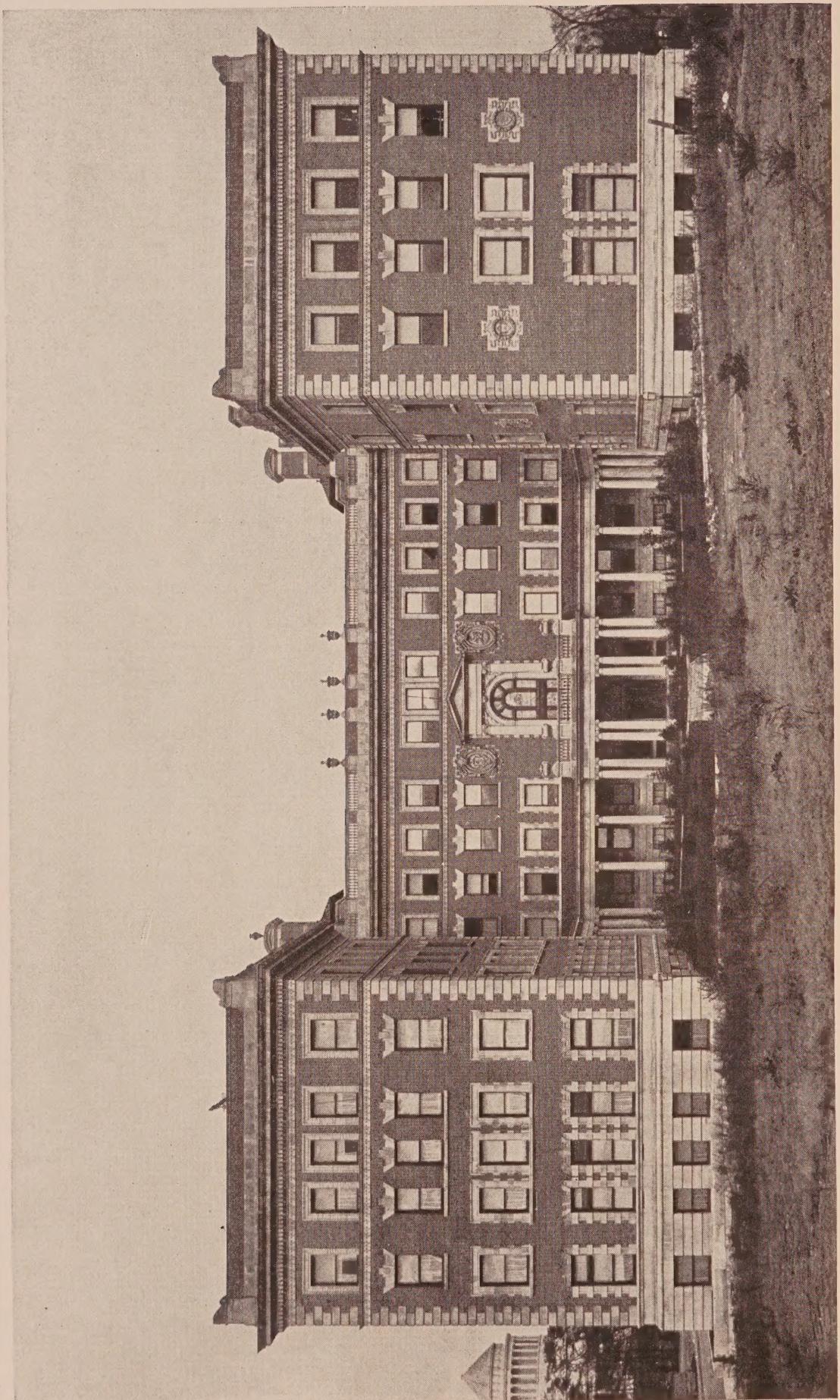
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Columbia University  
in the City of New York

BARNARD COLLEGE

CATALOGUE

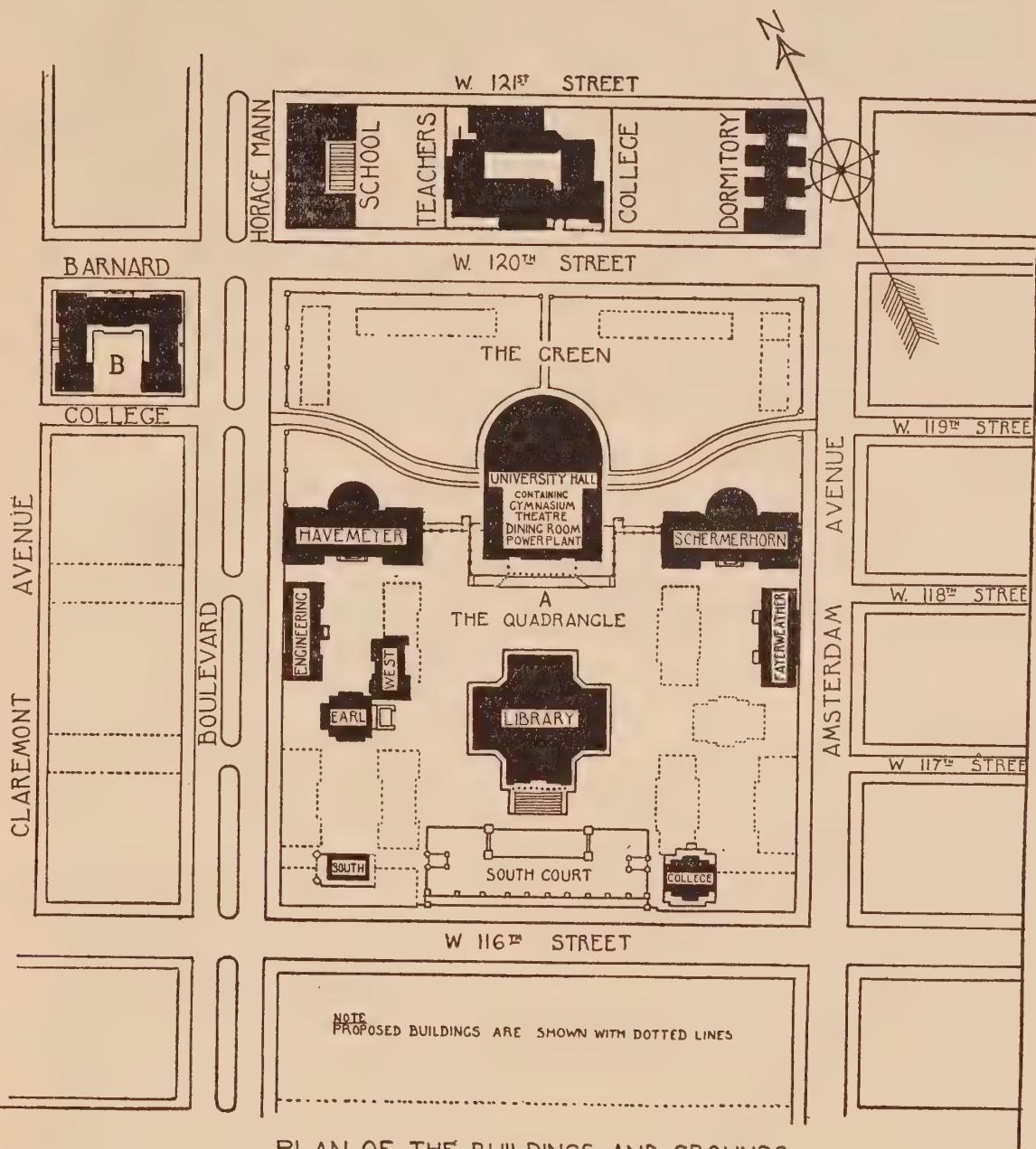
1901-1902

ANNOUNCEMENT

1902-1903

April, 1902





PLAN OF THE BUILDINGS AND GROUNDS  
COLUMBIA UNIVERSITY

0 50 100 150 200 FT

A—Entrance to University Gymnasium.

B—Entrance to Barnard College Theatre.



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*Adjunct Professor of Psychology*

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#### Standing Committees of the Faculty

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COMMITTEE ON ADMISSIONS: Professors Earle, *chairman*, Cole and Trent.

COMMITTEE ON SCHOLARSHIPS: The Dean, *ex officio, chairman*, Professor Brewster and Dr. Maltby.

COMMITTEE ON HONORS: Professors Lord, *chairman*, Trent and Woodward.

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*Registrar*

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*Secretary to the Dean*

## THE RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY

According to the agreement made January 19, 1900 (which is printed in full in the appendix), between the Trustees of Columbia University and Barnard College, for the purpose of incorporating Barnard College, a college for women in the educational system of the University, it is provided:

That the President of the University shall be, *ex officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to

time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the Senior year, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia

College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

#### **Teachers College**

By the terms of an agreement between Columbia University and Barnard and Teachers Colleges, regular students of Teachers College are permitted to attend courses in Barnard College. Teachers College offers reciprocal advantages to the students of Barnard College. Courses which are counted toward a Teachers College diploma and are open to Seniors of Columbia College are also open to Seniors of Barnard College.

## ADMISSION

The Committee on Admission has charge of everything relating to this subject.

1. Candidates for the bachelor's degree must have fulfilled the Requirements for Admission stated below, and must conform to the regulations governing the Course of Study leading to the degree of Bachelor of Arts (p. 39 sqq.). Students who do not wish to proceed to a degree are enrolled as special students (p. 38); they will, however, in the event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

2. Candidates for admission to the Freshman class must, at the time of matriculation, be at least fifteen years of age; and for admission to advanced standing a corresponding increase of age is required; but exceptions to this rule may be made when, in the opinion of the Committee on Admission, there are reasons sufficient to justify them.

3. Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some citizen in good standing, and students from other institutions must bring certificates of honorable dismissal.

### Requirements for Admission

4. Every candidate for admission to the Freshman class is required at the entrance examinations to offer subjects amounting to fifteen (15) points \* as indicated below.

The candidate *must* offer :

English (page 18).....	counting	3	points.
Elementary Latin (page 29) .....	"	4	"
Elementary Mathematics (page 30)...	"	3	"

The candidate may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering the corresponding elementary subject as well :

\* The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; the units are assigned to the subjects in proportion to the time required for adequate preparation in them.

Elementary Greek (page 25).....	counting 3 points.
Elementary History (page 26).....	" 1 point.
Intermediate French (page 21).....	" 1 "
Intermediate German (page 23).....	" 1 "
Advanced History (page 27).....	" 1 "
Advanced Mathematics (page 30).....	" 1 "
Advanced Latin (page 29).....	" 1 "
Advanced Greek (page 25).....	" 1 "
Advanced Physics (page 31).....	" 1 "

The candidate may offer not more than 4 points in all from the three subjects following:

Elementary French (page 19). ....	counting 2 points.
Elementary German (page 22).....	" 2 "
Spanish (page 32).....	" 2 "

The candidate may offer not more than 2 points in all from the five subjects following:

Elementary Physics (page 30).....	counting 1 point.
Chemistry (page 16).....	" 1 "
Botany (page 15).....	" 1 "
Physiography (page 32).....	" 1 "
Zoölogy (page 33).....	" 1 "

### Entrance Examinations

5. In 1902 the examinations will begin on June 16 and September 29 respectively.

In June, 1902, the entrance examinations of Barnard College will be those of the College Entrance Examination Board of which Columbia University is a member. The examinations in

Advanced Greek,  
Advanced History,  
Advanced Latin,  
Advanced Physics,  
Zoölogy,

in which subjects no examinations are at present held by the College Entrance Examination Board, will, however, be conducted by the Columbia University Committee on Entrance Examinations. *Candidates desiring to be examined in any of the above named*

*subjects must file a special application for such examination with the Columbia University Committee on Entrance Examinations at least two weeks before the day on which the entrance examinations begin.*

In September, 1902, the entrance examinations of Barnard College will be conducted by the Columbia University Committee on Entrance Examinations and will be held only at the College. The College Entrance Examination Board at present holds no examinations in September.

#### Application for Examination

**6.** Every candidate for examination is required to file an application for examination.

For the examinations in June, 1902, the application must be filed with the Secretary of the College Entrance Examination Board, Post-office Sub-station 84, New York, N. Y. Applications for examinations in New England, in the Middle States, or in Maryland, must be filed on or before June 9. Applications for examination elsewhere in the United States or in Canada must be filed on or before June 2. Applications for examination in Europe must be filed on or before May 19. Requests for blank forms of application should be addressed to the Secretary of the College Entrance Examination Board and should be accompanied by return postage.

For the examinations in September, 1902, candidates for admission to Barnard College should send their applications to the Registrar of Barnard College. Applications must be filed on or before September 22. Requests for blank forms of application should be addressed to the Registrar of Barnard College.

#### Examination Fee

**7.** Every candidate for examination is required in each year in which she takes examinations to pay an examination fee of \$5.

Every application for examination in June must be accompanied by this fee in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board.*\*

\* An examination fee paid to the College Entrance Examination Board for admission to the June examinations does not cover the matriculation fee of Barnard College.

Every application for examination in September must be accompanied either by the fee in the form of a postal order, express order, or draft on New York, to the order of *Barnard College* or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations of the same year.

In every case a candidate who has paid the examination fee will be furnished with a receipt. This receipt should be carefully preserved. It must be presented by the candidate to the Supervisor in charge of the examinations which she attends as evidence that she is entitled to be admitted to the same.

#### Division of Examination

8. A candidate may take examinations in June (but not in September) of the year preceding that in which she proposes to enter. Such examinations are known as preliminary examinations. At her preliminary examinations a candidate may, with the approval of her principal instructor, offer any subject or numbered part of a subject (see Definitions of Requirements below).

In the year in which she purposed to enter, a candidate may divide her examinations between June and September in whatever manner she may wish, and she may offer again in September any subject in which she may have failed at the June examinations.

The results of an entrance examination are allowed to stand to the credit of a candidate for eighteen months but not longer.

#### Places of Examination

9. In June, 1902, entrance examinations will be held at a large number of widely distributed points. A complete list of the places of examination may be obtained from the Secretary of the College Entrance Examination Board, Post-office Sub-station 84, New York, N. Y.

In September, 1902, examinations for admission to Barnard College will be held only at Barnard College.

#### Time-Scheme of Examinations

10. In both June and September, 1902, entrance examinations will be conducted in the Barnard College Theatre. (See plan on page iii.)

Candidates taking these examinations must report to the Supervisor, in the examination room, fifteen minutes in advance of the first examination which they are to attend.

*Monday, June 16th and September 29th*

Algebra.....	9.15-11.45
German, Elementary.....	1- 2.45
Physics, Elementary.....	3- 4.30
French, Advanced.....	4.30- 6.

*Tuesday, June 17th and September 30th*

Geometry .....	9.15-11.45
French, Elementary.....	1- 2.45
Chemistry.....	3- 4.30
German, Advanced.....	4.30- 6
Spanish.....	4.30- 6

*Wednesday, June 18th and October 1st*

Latin, Elementary (Grammar, Composition I., Cicero) .....	9.15-11.15
Latin, Elementary (Sight Translation).....	11.15-12.15
History, Elementary.....	1.30- 4
German, Intermediate.....	4.15- 6

*Thursday, June 19th and October 2d*

Greek, Elementary (Grammar, Composition I., Anabasis, Sight Translation).....	9.15-11.45
Latin, Elementary (Virgil's <i>Aeneid</i> , Composition II.).....	1- 3
French, Intermediate.....	3.30- 5.15

*Friday, June 20th and October 3d*

English.....	9.15-11.45
Greek, Elementary (Homer's <i>Iliad</i> , Composition II.).....	1- 3
Trigonometry.....	3.30- 5.30

*Saturday, June 21st and October 4th*

Botany .....	9.15-10.45
Greek, Advanced.....	9.15-11.15
History, Advanced...	9.15-11.15
Physiography .....	11- 12.30
Latin, Advanced .....	11.30- 1.30
Physics, Advanced.....	11.30- 1.30
Zoölogy .....	1.30- 3

### DEFINITIONS OF REQUIREMENTS\*

(Specimen Question Papers May be Obtained from the Registrar  
Upon Application)

#### Botany † (counting one point)

II. The candidate should have received training by means of the laboratory method in :

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiatæ, Compositæ). In addition to these, the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microsphaera*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphaerella*).

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

\* The several subjects are stated in terms of units; the unit is a course of five periods weekly throughout an academic year of the preparatory school; to the subjects units are assigned in accordance with the time required adequately to prepare in them for college entrance.

† For a more detailed statement of the requirement in Botany the reader is referred to the definitions of the requirements published by the College Entrance Examination Board. Applications for the pamphlet containing these definitions should be addressed to the Secretary of the College Entrance Examination Board, Post-office Sub-station 84, New York, N. Y.

**Ecology.** The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, the note-book of the candidate should be submitted *at the time of the examination*. The note-book must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work. Candidates desiring the return of their note-books should apply for them after the examination to the Assistant Secretary of the University. Note-books for the return of which no application is made will be preserved for one year only.

#### Chemistry (counting one point)

The candidate's preparation in Chemistry should include:

- a. The study of a standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.
- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises.

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary textbooks and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

**OUTLINE**—The chief physical and chemical characteristics, the preparation, and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potassium, sodium, calcium, magnesium,*

*zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen-sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

A list of suitable laboratory experiments is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-office Sub-station 84, New York, N. Y.

**LABORATORY NOTE-BOOK**—Every candidate must present *at the time of her examination in chemistry* a note-book in which she has recorded the steps and the results of her laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by.....

in the chemical laboratory of .....School  
during the year 19 .....  
Instructor in Chemistry.

### English (counting three points)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

1. Reading and composition—The candidate will be required to present evidence of a general knowledge of the subject-matter of the prescribed books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before her in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book,\* properly certified by her instructor, containing compositions or other written work done in connection with the reading of the books.

The candidate is expected to read intelligently *all* the books prescribed. She should read them as she reads other books; she is not expected to know them minutely, but to have freshly in mind their most important parts. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates offering this part of the requirement as a preliminary subject should be prepared on the books prescribed for the year in which they propose to enter.

The books prescribed for this part of the examination are as follows:

\* Such exercise books should be prepared in accordance with a list of directions, to be obtained by addressing the Assistant Secretary of the University. *Exercise books should be sent to the Assistant Secretary of Columbia University not later than two weeks before the first day of the examination.* Within ten days the teacher will be informed whether the candidate is, or is not, excused from examination on the books prescribed or reading. *Exercise books will not be returned to the writers*

In 1902: Shakspere's Merchant of Venice; Pope's Iliad, Books I, IV, XXII, and XXIV; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Cooper's Last of the Mohicans; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

In 1903, 1904, and 1905: Shakespre's Merchant of Venice and Julius Cæsar; The Sir Roger de Coverley Papers in the Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

2. Study and composition—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon the subject matter, the literary form, and the logical structure. The candidate may be required, in addition, to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books, parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1902, 1903, 1904, and 1905: Shakspere's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison.

### French

**Elementary** (counting two points)

**THE AIM OF THE INSTRUCTION**—At the end of the elementary course the pupils should be able to pronounce French accurately, to read at sight easy French prose, to put into French

simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar, as defined below.

**THE WORK TO BE DONE**—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiment of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédollière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Froncin's *Le pays de France*, Labiche and Martin's *La poudre aux yeux* and *Le voyage de M. Perrichon*, Legouvé and Labiche's *La cigale chez les fourmis*, Malbot's *Sans famille*, Mairet's *La tâche du petit Pierre*, Mérimée's

*Colomba*, extracts from Michelet, Sarcey's *Le siège de Paris*, Verne's stories.

**Intermediate** (counting one point)

**THE AIM OF THE INSTRUCTION**—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

**THE WORK TO BE DONE**—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Corneille's *Le Cid* and *Horace*, Coppée's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *Pêcheur d'Islande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque* and *Esther*, George Sand's plays and stories, Sandeau's *Mado-moiselle de la Seigliere*, Scribe's plays, Thierry's *Récits des temps mérovingiens*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

**Advanced.\***

**THE AIM OF THE INSTRUCTION**—At the end of the advanced course the pupil should be able to read at sight, with the help of a vocabulary of special technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose; and to carry on a simple conversation in French.

**THE WORK TO BE DONE**—This should comprise the reading of from 600 to 1000 pages of standard French, classical and

\* Advanced French must be offered by candidates who wish to enter the course known as French 2 (see courses announced by the Department of Romance Languages and Literatures). It may not be counted among the points required for admission.

modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais's *Barbier de Séville*, Corneille's dramas, the elder Dumas's prose writings, the younger Dumas's *La question d'argent*, Hugo's *Ruy Blas*, lyrics and prose writings; La Fontaine's fables, Lamartine's *Graziella*, Marivaux's plays, Molière's plays, Musset's plays and poems, Pellisser's *Mouvement littéraire au XIX<sup>e</sup> siècle*, Renan's *Souvenirs d'enfance et de jeunesse*, Rousseau's writings, Sainte-Beuve's essays; Taine's *Origines de la France contemporaine*, Voltaire's writings; selections from Zola, Maupassant and Balzac.

### German

#### Elementary (counting two points)

**THE AIM OF THE INSTRUCTION**—At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving her ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

**THE WORK TO BE DONE**—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs; also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the

English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use her knowledge with facility in the formation of sentences, and, secondly, to state her knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonne* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien*, and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedict's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelm's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

**Intermediate (counting one point)**

**THE AIM OF THE INSTRUCTION**—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put

into German a connected passage of simple English, paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation may be necessary) a passage of classical literature taken from some text previously studied.

**THE WORK TO BE DONE**—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder Aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das edle Blut*.

#### Advanced\*

**THE AIM OF THE INSTRUCTION**—At the end of the advanced course the student shall be able to read, after brief inspection,

\* Advanced German should be offered, if possible, by candidates desiring to take advanced courses in German. It may not be counted among the points required for admission.

any German literature of the last one hundred and fifty years that is free from any unusual textual difficulties, to put into German a passage of simple English prose, to answer in German questions relating to the lives and works of great writers studied, and to write in German a short, independent theme upon some assigned topic.

**THE WORK TO BE DONE**—The work of the advanced course (last year) should comprise the reading of about 500 pages of good literature in prose and poetry, reference readings upon the lives and works of the great writers studied, the writing in German of numerous short themes upon assigned subjects, independent translation of English into German.

### Greek

#### Elementary (counting three points)

##### 1. Greek Grammar.

The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose; also the constructions, poetical forms, and prosody of Homer's Iliad.

##### 2. Greek Composition I.

Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's Anabasis.

##### 3. Xenophon.

The first four books of the Anabasis.

##### 4. Homer.

The first three books of the Iliad (omitting II, 494-end).

##### 5. Greek Composition II.

Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

##### 6. Sight Translation.

Translation into English at sight, based on prose of no greater difficulty than Xenophon's Anabasis.

#### Advanced (counting one point)

Candidates offering Greek as an advanced subject must present the equivalent of the course known as Greek B (see courses

announced by the Department of Greek). In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1600 lines in addition to the amount offered for the elementary examination. The candidate must also offer the eight orations of Lysias in Morgan's edition, or an equivalent amount of similar Greek, and in prose composition at least twenty exercises in the writing of connected narrative prose. The exercises in Part III of Allinson's Greek Prose Composition will show the grade of preparation demanded.

### History

#### **Elementary** (counting one point)

Candidates offering history as an elementary subject may present themselves for examination upon either of the following groups. They will not be permitted to offer both of these groups as elementary subjects.

#### First Group :

1. Greek history to the death of Alexander, with due reference to Greek life, literature, and art.
2. Roman history to the accession of Commodus, with due reference to literature and government.

*In 1903 and thereafter for the subjects of this group will be substituted the following:*

1. *Ancient history, including a brief introductory study of the Oriental peoples and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.*
2. *Mediæval and modern history, with due reference to the growth of the state-system.*

#### Second Group :

3. English history, with due reference to social and political development.
4. American history, with the elements of civil government.

**NOTE.**—For preparation in either of these groups a course of study equivalent to at least three lessons a week for two years will be needful. On examination a candidate must show such general knowledge of each field offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since, however, the examinations will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended

that the teacher prescribe a course of supplementary reading of not less than five hundred pages dealing with the more important periods and events in both of the historical fields offered. Geographical knowledge will be tested by requiring the location of places and movements on an outline map.

**Advanced** (counting one point)

Any one of the four courses which follow:

1. Greek history to the destruction of Corinth, and Roman history to the death of Constantine. (Open to candidates only who have offered English and American history as an elementary subject.)
2. English and American history. (Open to candidates only who have offered Greek and Roman history as an elementary subject.)
3. European history from the Germanic conquests to the beginning of the seventeenth century.
4. A year's study of any one of the four historical fields defined under Elementary History and not already offered by the candidate, together with a year's detailed study of a limited period within that field (*e.g.*, the Spartan and Theban supremacies, the period of the Punic wars, the Stuart period, the transition from the American colonial to the federal system), selected with the approval of the Department of History.

The examination in the second part of 4 will be specially adapted to the particular period selected.

In every case the candidate must show on examination such an acquaintance with the whole field as may be gained from the study of good text-books together with substantial parallel readings, and such a detailed knowledge of some part of the field as may be gained from suitable topical study.

*In 1903 and thereafter for the preceding statement relative to the requirement in Advanced History will be substituted the following:*

*The requirement in Advanced History is intended to be an equivalent for History A—the course prescribed in Barnard College (see courses given by Department of History). The work done at school, therefore, should*

*be substantially identical with that course. Those candidates who have taken the examination in Elementary History, and desire to offer History as an advanced subject, must present themselves for examination upon the historical fields included in THAT GROUP WHICH THEY DID NOT OFFER AS AN ELEMENTARY SUBJECT. For example, if a candidate offers the first group as the elementary subject, she must offer the second group as the advanced subject, and vice versa. The examination will presuppose superior ability on the part of the candidate in Advanced History to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts, and to combine results.*

As further evidence of proficiency, satisfactory written work, done at school and duly certified by the teacher as to independent preparation, must be submitted. This work must be presented in the form of a note-book, or bound collection of notes, containing not less than five thousand words on each historical field offered, and must show practice in at least three of the following exercises:

- (a) Notes and digests of reading outside of the textbooks.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

The written work must be sent to the Assistant Secretary of Columbia University, two weeks before the entrance examination begins.

**Latin****Elementary** (counting four points)**1. Latin Grammar.**

The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse and the subjunctive; also so much of prosody as concerns accent, versification in general, and the dactylic hexameter.

**2. Latin Composition I.**

Translation into Latin of detached sentences and very easy continuous prose based upon Cæsar and Cicero.

**3. Cicero.**

Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Mamilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

**4. Virgil.**

The first six books of the *Aeneid*.

**5. Latin Composition II.**

Translation into Latin of continuous prose of moderate difficulty based on Cicero.

**6. Sight Translation.**

Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

**Advanced** (counting one point)

Candidates offering Latin as an advanced subject must present the equivalent of the course known as Latin A (see courses announced by the Department of Latin). This course comprises the reading of Cicero's *De Senectute* and *De Amicitia*, a review of the syntax of the verb as contained in any standard grammar, and a knowledge of prose composition as represented by the second part of Daniells's *New Latin Composition*; also the reading of the first and third books of the *Odes* of Horace, with a satisfactory knowledge of the prosody.

### Mathematics

**Elementary** (counting three points)

**1. Algebra to quadratics.**

Factors, common divisors, and multiples, fractions, equations of the first degree with one or more unknown quantities, evolution, the doctrine of exponents, radicals, radical equations reducible to equations of the first degree, and putting problems into equations.

**2. Algebra from quadratics.**

Quadratic equations, equations with one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive entire exponents.

**3. Plane geometry.**

Plane geometry, including the solution of simple original exercises and numerical problems.

**Advanced** (counting one point)

**1. Solid geometry.**

Solid and spherical geometry, including the solution of simple original exercises and numerical problems.

**2. Algebra.**

The arithmetical and geometrical progressions, the elementary treatment of permutations and combinations, and the use of four-place and five-place tables of logarithms.

**3. Plane trigonometry.**

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

### Physics

**Elementary** (counting one point)

The candidate's preparation in physics should include :

- a.** The study of a standard text-book supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics

- b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.
- c. Individual laboratory work, comprising at least forty exercises distributed about as follows: mechanics 17, sound 3, heat 5, light 6, electricity 9.

A list of suitable experiments in physics is contained in the definitions of the requirements published by the College Entrance Examination Board and may be obtained upon application to the Secretary of the Board, Post-office Sub-station 84, New York, N. Y.

**LABORATORY NOTE-BOOK**—Every candidate must present *at the time of her examination in physics* a note-book in which she has recorded the steps and the results of her laboratory experiments. A candidate who fails to present such a note-book cannot receive credit for the examination. Each note-book must contain an index of the experiments which it describes and must be endorsed by the instructor, the endorsement being written in ink on the inside of the cover. The endorsement must in effect be as follows:

I certify that this note-book is a true and original record of experiments actually performed by .....  
in the physical laboratory of ..... School  
during the year 19.....

Instructor in Physics.

**Advanced** (counting one point)

Candidates offering physics as an advanced subject must have studied physics for a full year after satisfactorily completing the elementary requirement. The work during this time must be devoted to a more thorough and extensive study of the subjects previously covered in a general way. Besides class-work, it must include at least sixty experiments actually performed in the laboratory by the candidate. A laboratory note-book must be submitted at the time of the examination. It must contain a certificate from the teacher that it is a true record of the candidate's work. It will be returned to the candidate upon subsequent application to the Assistant Secretary of the University.

**Physiography** (counting one point)

The equivalent of Davis's Physical Geography, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.\*

The candidate will be required to present at the time of her examination the original note-book in which she recorded, with dates, the steps and results of her laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

**Spanish** (counting two points)

**THE AIM OF THE INSTRUCTION**—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

**THE WORK TO BE DONE**—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

\*For a more detailed statement of the requirement in physiography the reader is referred to the definitions of the requirements published by the College Entrance Examination Board, Post-office Sub-station 84, New York, N. Y.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdés's *José*; Galdós's *Doña Perfecta*, *Marianela*; Parde Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

### Zoölogy (counting one point)

In general, zoölogy is not recommended as an entrance subject unless the study has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, her knowledge of the more essential facts of physiology.

*Practical Zoölogy*—A practical examination on at least ten common animal types, and the presentation by the candidate of a laboratory note-book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (*Hydra*), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiae* than on the ability to recognize the specimen and its allies, to indicate its relationships, and to point out the leading features of its life-history, organization, and physiology.

*Elementary Physiology*—The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions; and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work; but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course on practical zoölogy.

### Certificates in Lieu of Entrance Examinations

12. Barnard College accepts in lieu of its entrance examination no credentials of any sort except the Regents' Academic Diploma \* and the certificates of universities and colleges in good

\* Every Regents' Academic Diploma is considered to meet the entrance requirement in English. No Regents' Academic Diploma will be accepted in lieu of the

standing. These credentials are accepted only for the ground which they specifically cover.

All certificates offered in lieu of entrance examinations must be sent to the chairman of the Barnard College Committee on Admission, at least one week before the first day of the entrance examinations. The names of those candidates whose certificates are accepted in whole or in part will be posted on the Bulletin Board at least one day in advance of the beginning of the examinations.

*The separate pass-cards, the Academic Equivalent Certificate, and the several other certificates issued by the Regents of the State of New York, are not accepted by the College in lieu of the examinations.*

*The certificates of the preparatory or high-school departments of universities and colleges are not accepted by the College.*

Candidates must take the regular entrance examinations in the subjects in which their certificates are not deemed adequate.

#### Report of Entrance Examinations

13. The Committee on Admission will report to the Dean as soon as may be after the conclusion of the entrance examinations in June the names of those candidates who, having passed a satisfactory examination, may be admitted with or without conditions and of those who must present themselves for re-examination in September.

The Committee on Admission will report to the Dean not later than one week after the conclusion of the entrance examinations in September the names of those candidates who, upon a final showing, may be admitted with or without conditions and of those who have been rejected.

Except for reasons of weight, satisfactory to the Committee on Admission, the results of an entrance examination will not be accepted unless it covers the complete three-years' high-school course in French recognized by the Regents. Similarly, no Regents' Academic Diploma will be accepted in lieu of the entrance examination in German unless it covers the complete three-years' high-school course in German. To be accepted in lieu of all parts of the examination in Latin or of the examination in Greek, a Regents' Academic Diploma, ~~must~~, specifically cover, among other things, sight reading and prose composition. In ~~case~~ <sup>case</sup> of the natural sciences, a Regents' Academic Diploma will not be accepted for ~~case~~ <sup>case</sup> laboratory work. No diploma granted more than two years before the ~~case~~ <sup>case</sup> herself for matriculation will be accepted.

be allowed to stand to the credit of a candidate for a longer period than eighteen months.

#### Admission to Advanced Standing

**14.** Candidates for admission from other colleges, and those desiring to be admitted to advanced standing on examination, must make application in writing to the Barnard College Committee on Admission. Proper blanks for the purpose may be obtained from the Registrar. The application should be made at least one week before the first day of the September entrance examinations.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of

1. The requirements for admission to the Freshman class;
2. All the prescribed studies already pursued by the class to which she seeks admission;
3. As many elective studies as she would have pursued if she had entered the class at the beginning of the Freshman year.

A candidate may be admitted notwithstanding deficiencies in some of these studies, but no candidate will be recommended for her degree until she shall have brought all her studies up to the point required for it.

Every candidate from another college is required to furnish (1) official statements of her record in her various college studies, (2) letters or other evidence showing the opinion of her instructors in regard to her scholarship and character, (3) honorable dismissal from the college which she is leaving, and (4) a catalogue or announcement of the college that she leaves in which are plainly marked every requirement for admission and every course of instruction for which she has received credit.

No applicant will be allowed to enter the Senior class as a candidate for the degree of Bachelor of Arts after October 15th in any year.

#### Entrance Conditions and Probation

**15.** Students admitted conditionally to the Freshman class at the beginning of the academic year will be held under probation till the end of the first half-year.

Not later than Tuesday of the second week following the Christmas holidays, the head of each department in which students on probation attend shall make to the Dean a special report of progress in the case of each such student. The Dean shall as soon as practicable, and not later than the end of the half-year, decide as to each student on probation, whether she shall be dropped from the roll of the College or have her period of probation extended.

If any member of the Freshman class receive at the mid-year examinations a grade in scholarship of C, or higher, in any subject, this grade shall be regarded as removing any entrance condition that may have been recorded against her in that subject.

Any member of the Freshman class conditioned at entrance must make good by examination every condition that is not removed under the operation of the foregoing provision. She should present herself for this purpose at the entrance examinations in June or September of the year following her admission. The College holds no special examinations to enable students to remove entrance conditions.

*No student shall be admitted to the Sophomore class until she shall have removed all her entrance conditions.*

#### REGISTRATION AND MATRICULATION

16. All students are required to present themselves at the office of the Registrar for registration on the Wednesday, Thursday, Friday, or Saturday of the week preceding the first Monday in October of each year. Enrolment at a later date is permitted only to those who obtain the consent of the Dean, good cause for the delay having been shown. Registration will cease on the fourth Saturday in October. The presence of all students is required on the day immediately following the close of all vacations and recesses.

After filling in the blank provided for the purpose, students must present the same to the Registrar, who will issue a charge blank. This charge blank must be presented to the Bursar with the proper fee, and a receipt will be given, without which no student will be permitted to attend any college exercise.

Students just entering must file in the Dean's office, at the

time of registration, a statement of the elective courses chosen by them.

Every student who holds a scholarship or is receiving the benefit of free or reduced tuition must obtain from the Dean a certificate to that effect. This certificate must be handed to the Bursar at the time of registration.

### FEES

17. On entering Barnard College every student is required to pay a matriculation fee of \$5. This requirement is covered by a fee paid to Barnard College for entrance examinations in September, but not by a fee paid to the College Entrance Examination Board.

The annual tuition fee of every regular student is \$150, payable in two equal instalments, one at the opening of the College in October, one on the opening day of the second half-year in February. Attendance upon courses is not permitted until the tuition fee has been paid.

Special students are charged at the rate of \$15 a year for each hour a week of attendance upon the courses elected, with a maximum fee of \$150. In laboratory work two hours are counted as one in estimating the fee. Any fee which amounts to less than \$100 is payable in one instalment in advance.

A deposit of \$5 is required of each student in elementary chemistry, of \$10 in qualitative chemistry, of \$15 in inorganic quantitative chemistry, and one of \$20 in organic chemistry, synthetic or analytic, to cover breakage, the balance to be returned at the close of the college year.

Each student taking courses in zoölogy is charged \$5 to cover the cost of material which she will require in the laboratory.

A fee of \$5 will be charged for every examination held at a period not regularly appointed for that purpose in previous public announcements.

Each candidate for the degree of Bachelor of Arts is required to pay a fee of \$15 before being admitted to the final examinations for the degree.

Checks should be made payable to the order of Barnard College, and should be addressed to the Bursar, Barnard College, New York, N. Y.

**SPECIAL STUDENTS**

18. Special courses of study are offered by the College to young women, of proper age and character, who wish, without reference to any degree, to make a serious study of any subject or group of subjects. This provision, however, is not designed for students who would be unable, because of defective preparation, to secure admission to the Freshman class. Candidates for admission as special students are required to present themselves at the entrance examinations and to fulfil the full requirements for admission to the Freshman class. (See p. 10 sqq.) Applications for admission should be made at least one week before the first day of the entrance examinations. Proper blanks for this purpose may be obtained from the Registrar.

Once admitted to the College special students will be allowed to select their own courses of study subject to the general approval of the Dean and to the particular approval, for each course selected, of the head of the department in which the course is given.

*Except for reasons of weight, satisfactory to the Committee on Admission, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, been rejected as a regular student, or has, within that period, become deficient as a regular student.*

In the courses which they severally pursue special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

Admission may be obtained to courses in music without examination in any subject except English. The written authorization of the Director of the Department of Music must be presented by the candidate to the Registrar at the time of registration.

**DORMITORY**

19. Since October, 1898, Fiske Hall has been used as a residence for students. This building was given by Mrs. Josiah M. Fiske for a Hall of Science, and has been only temporarily used as a dormitory.

The rapid growth of the student body has at last forced the Trustees to remodel the building according to the original plan. It will, therefore, be discontinued as a dormitory after July 1, 1902, and be remodeled into laboratories and lecture-rooms during the summer.

The Trustees feel that the dormitory has added a most desirable influence to the college life, and have voted to take steps to provide a permanent and separate dormitory as soon as possible.

In the meantime, provision will be made in the Teachers College Dormitory for such Barnard College students as may desire to reside there, by which certain unity of college life may be maintained until the College shall have its own permanent dormitory.

Applications for information and for rooms should be made to the Director of the Teachers College Dormitory, 1230 Amsterdam Avenue, New York, N. Y.

All students who are not resident with adult relatives or in the Teachers College Dormitory must have the approval of the Dean to their arrangements for living.

#### COURSE OF STUDY

**20.** The attention of students is called to the following regulations relating to the selection of studies and to the requirements for the degree of Bachelor of Arts.

Candidates for the degree of Bachelor of Arts are required to present courses making a total of sixty points, each point having the value of a subject pursued one hour a week for one academic year, except that laboratory hours shall be counted for one half of the number of hours actually occupied. Not less than twelve, nor more than sixteen, points may be presented in any year without the consent of the Dean. No one-hour course, unless taken in connection with and as a supplement to a cognate course, will be allowed. Until the end of her Junior year, a student must always pursue not fewer than three courses having a value of at least three points each.

The courses necessary to meet these requirements may be chosen by the student at will from the courses announced each year, subject to the restrictions named in connection with each course, and to the following general restrictions:

- (1) For all students the following courses are prescribed:  
Latin **A** or **B** (unless *Advanced Latin* is offered at entrance, see page 29), 3 points—Freshman year.  
English **A**, 3 points—Freshman year.  
English **B**, 3 points—Sophomore year.  
Economics **A**, 3 points—First half of Junior year.  
Psychology **A**, 3 points—Second half of Junior year.
- (2) For students that do not offer *French* at entrance is prescribed:  
*French A*, 3 points—Freshman year.
- (3) For students that do not offer *German* at entrance is prescribed:  
*German A*, 3 points—Freshman year.
- (4) For students that do not offer a *Natural Science* at entrance is prescribed:  
Botany **51**, 3 points—Freshman, Sophomore or Junior year; or  
Chemistry **I**, 4 points—Freshman, Sophomore or Junior year; or  
Physics **1a**,  $1\frac{1}{2}$  points—Freshman, Sophomore or Junior year.
- (5) For students that do not offer *Advanced Mathematics* at entrance is prescribed:  
*Mathematics A*, 3 points—Freshman year.
- (6) For students that do not offer *Advanced History* at entrance is prescribed:  
*History A*, 3 points—Freshman or Sophomore year.

In making out their lists of electives, students are confined to the courses indicated as open to them in the Announcement of the College. They must avoid conflicts of courses at the same hour, and for that purpose should consult the Scheme of Attendance. (See page 87.)

Students in the College are required, on or before May 20, to give notice to the Dean, upon blanks to be procured from the Registrar, of their choice of elective courses. Special attention is called to this requirement, in order to avoid confusion and possible embarrassment to the student.

The Dean and the head of the department concerned may permit any study prescribed for the degree of Bachelor of Arts to

be taken as an elective in an earlier year than that for which it is announced.

Elective courses are subject to withdrawal if elected by fewer than three students.

No changes in elective courses can be made without the written permission of the Dean. Such permission will be granted only for reasons of weight stated in writing, and no changes can be made later than two weeks after the beginning of the first term.

Permission is also necessary to entitle a student to take more than four hours of work, not including laboratory work, on the same day, and to take more than six hours of work weekly in any department.

*No student will be allowed to elect courses that require her continuous attendance in classes from 11.30 A.M. to 2.30 P.M.*

#### Graduation Theses

**21.** Each candidate for graduation shall, on or before December 15, with the approval of the instructor in charge of one of the courses in which she has studied, or is studying, select for a thesis some subject connected with that course, and communicate her selection to the Dean; under such guidance and with such help as the instructor may deem it right to give her, she shall complete the thesis, or essay, and submit it to the Dean on or before April 2. This thesis shall be judged by the head of the department in which the chosen subject lies; and the judgment shall be passed upon the merit of the thesis both in its substance and in its style, and shall be reported in writing by the head of the department to the Dean. In returning the graduation thesis to the Dean the examining officer shall report:

1. A grade as to substance;
2. A grade as to style;
3. A grade as to its merits as a whole.

Each thesis shall contain, as appendix, a list of authorities that have been used. It shall contain at least 2000 words, unless there be special reasons for reducing its length; and it shall be retained as the property of the College.

If any student fail to comply with these requirements, or if her thesis be rejected, she shall not be recommended to the Trustees for graduation.

The graduation thesis must be written on firm, strong paper, eleven by eight and one-half inches in dimensions, and a space of one and one-half inches on the inner margin must be left free from writing.

#### Teachers College Diploma

**22.** The course of study in Teachers College for those that intend to teach in secondary schools is so arranged that students of Barnard College may, if they so desire, obtain the Diploma of Teachers College at the time of receiving the degree of Bachelor of Arts. Details as to these courses will be found in the Announcement of Teachers College, which will be sent on application to the Secretary of Teachers College.

#### Examinations in Course

**23.** Two examinations of all the classes are held every year, one beginning on the last Monday in January, and the other on the Monday of the third week preceding Commencement. The former is called the mid-year examination; the latter, the final examination. Any department may omit the mid-year examination in some or all of its courses for Seniors, notice of such intended omission to be sent to the Dean on or before December 1 preceding. It is the privilege of any department to announce that, in some or all of its courses, the results of the mid-year examination will be tentative only, the grades given after the final examination applying to the whole year.

Any student who shall have been absent from more than one-tenth of the exercises in any course during a single half-year shall not be entitled to examination in that course.

Every student is expected and required to keep an account of her absences, and, should she exceed the limit allowed in any course, she must present to the Dean, during the week preceding the stated examination, satisfactory explanation of all her absences, or be debarred from the examination.

(a) A student absent from a mid-year or final examination in any course will be counted deficient in that course.

(b) A student reported, at the close of the year, in grade F in more than one course, or in grade F in one course and in grade D in more than two other courses, or in grade D in four or more courses, will be dropped from the roll of her class.

(c) A student dropped from the roll of her class will not be permitted to attend any of the exercises of the said class without the consent of the Dean, given for reasons of weight; but she may enter the next class below and pursue the course or courses in which she is deficient, or, in case of elective courses, with the consent of the Dean, other course or courses equivalent thereto in time, and present herself for examination in such course or courses with that class. Upon failing with that class, in any repeated or substituted course, her name will be dropped from the roll of the College. No student dropped from the roll of her class or of the College under the provisions of this section will be accepted as a special student.

(d) No student will be promoted to the Junior class who is deficient in any course of the Freshman class; and no student will be promoted to the Senior class who is deficient in any course of the Sophomore class. Students who fail in any required course must repeat it in the following year, unless the deficiency has been made good by examination.

Examinations to enable deficient or debarred students of all classes to make good their deficiencies are held within the two weeks immediately preceding the opening of the College in October; and in addition, for members of the Senior class only, during the first week in May.

Examinations at times other than those specified are not held except upon the written order of the Dean, given for reasons of weight. A fee of five dollars (\$5) is required for every special examination.

#### Proficiency and Deficiency

**24.** At the close of every half-year, and after the stated examination has been held, each officer of instruction shall report to the Dean a list of all the students in his several courses, classifying them in five grades, namely, A, B, C, D, F, according as their work in the course has been excellent, good, fair, poor, or a failure.

Students reported in grade F in any course will be deemed deficient in that course, and required to pass another examination in it at the time fixed for the examination of debarred and deficient students, unless, for reasons of weight, the Dean shall otherwise direct.

Students reported in grade D in any course at the end of the first half-year will be warned by the instructor in charge thereof that their work is so unsatisfactory that, unless improved, it may result in their being found deficient at the close of the second half-year.

Students reported in grade D in two or more courses at the end of the first half-year will be warned by the Dean that their record is not satisfactory, and that, unless they improve, they may be required to take the courses a second time or to substitute other courses.

A student reported in grade D in four or more courses at the close of the year, and not reported in grade A or B in any course, or a student reported in grade F in one course and in grade D in two other courses, or in grade F in more than one course will not be permitted to go on with her class without the consent of the Dean, given for reasons of weight, nor will she be accepted as a special student; but she may enter the next class below.

(a) No scholarship, prize, or other honor will be awarded in any course or department to any student who is reported in a grade below C in any other course or department during the year in which she is a candidate for such scholarship, prize, or honor.

(b) Each student to whom honors are awarded in any department will receive, immediately after Commencement, a certificate of such award, under the seal of the University and bearing the signatures of the President and the Dean.

#### **Honorable Dismission**

**25.** An honorable discharge shall always be granted to any student in good standing who may desire to withdraw from the College; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of her parent or guardian, given in writing to the Dean.

Students are requested in case of withdrawal during the academic year to file a notice thereof at the office of the Registrar, who will on application provide the blank form for this purpose.

## COMPETITIVE SCHOLARSHIPS

**26.** There are fifteen honor scholarships, which are awarded for excellence in entrance examinations on the nomination of the Committee on Admission. Each of these scholarships entitles its holder to receive the sum of \$150 annually, applicable to the fees of the year in which it is held. But if a holder of an honor scholarship fail to maintain a standing of at least grade C in all the courses pursued by her, or if she commit any breach of good order, she shall forfeit the scholarship.

### Trustees' Competitive Scholarship

A scholarship of \$150 (valid for one year only) is awarded annually by the Board of Trustees to the student who passes in June the best complete entrance examination in all subjects.

### The Brooklyn Scholarships

Twelve scholarships, founded by the Trustees of Columbia University in 1895, in recognition of the gift to Columbia University by President Low of a memorial building for the University library, are opened for competition to candidates for admission to Barnard College who are residents of Brooklyn, N. Y., and have received their training in either the public or the private schools of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June without conditions the best complete entrance examinations in all subjects, and may (unless forfeited) be held for the whole course.

Should any recipient desire, she may, while retaining the title "Brooklyn Scholar," transfer to any properly qualified candidate from Brooklyn the income from the scholarship; and such action on her part will not be made a matter of public record.

### Lucille Pulitzer Scholarship

A fund of \$10,000 was given in 1899 by Joseph Pulitzer, Esq., to establish a scholarship in memory of his daughter, Lucille Pulitzer. The annual income of the fund is applied to the use of the holder of the scholarship, which is awarded by the Trustees to the undergraduate student entering the College from

the city of New York who is found to have passed the best examinations and to have shown herself to be the most worthy in every way.

#### Jessie Kaufmann Scholarship

A fund of \$4,000 was given in 1902 by Julius Kaufmann, Esq., to establish a scholarship in memory of his daughter, Jessie Kaufmann. The annual income of the fund shall be awarded on the merits of the entrance examinations to a student, who after careful investigation is found to have no relative able to assist her financially, and is to be held for the entire college course unless forfeited under the general conditions and rules of the College.

### NONCOMPETITIVE SCHOLARSHIPS

27. The noncompetitive scholarships are awarded by the Committee of the Trustees on Scholarships on the nomination of the corresponding Committee of the Faculty. They are only available (unless otherwise stipulated by the donors) for students who have passed one year in the College, who have proved their worthiness and capacity, and who cannot unaided meet the expenses of a college education.

These scholarships are awarded annually *for one year only*; and the application with full credentials must be filed on or before April 1 of each year on regular application blanks to be obtained at the Dean's office.

The holder of a scholarship receives the sum of \$150, applicable to the fees of the year for which the scholarship is awarded; but if she fail to maintain a standing of at least grade C in all the courses pursued by her, or if she commit any breach of good order, she shall not be eligible to reappointment for the following year.

#### Student Scholarships

The Committee of the Trustees on Scholarships have assumed the financial responsibility for twelve scholarships, to be awarded annually in aid of worthy students. The money has been provided annually by gifts; but an effort is now being made to establish a Scholarship Endowment Fund, so that the annual solicitation of gifts may become unnecessary.

**Ella Weed Scholarship**

A scholarship of \$150, founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of the existence of the College, is awarded annually to a student who needs and deserves assistance.

**Veltin School Scholarship**

A scholarship of \$150, given by the alumnae of Mlle. Veltin's School, is awarded annually on the same conditions as the Ella Weed Scholarship.

**Arthur Brooks Fund**

A fund of \$5000 was given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Rev. Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of the existence of the College. The interest of the fund is used to aid needy and deserving students of the College.

**Mrs. Donald McLean Scholarship**

A scholarship of \$150, founded in 1898 by the New York Chapter of the Daughters of the American Revolution, is awarded to a student who deserves it, and who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her course. The scholarship is awarded annually in conference with a representative of the New York Chapter of the Daughters of the American Revolution.

**Jennie B. Clarkson Scholarship**

A scholarship of \$150, founded in 1898 by Mrs. W. R. Clarkson, is awarded annually to a student who deserves assistance.

**Emily James Smith Scholarship**

This scholarship was founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of the College. It is awarded annually in conference with the founder.

**Anna E. Barnard Scholarship**

This scholarship was founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded annually on the same terms as the Emily James Smith Scholarship.

**The Brearley School Scholarship**

A scholarship of \$150, given in 1899 by pupils and former pupils of the Brearley School, will be awarded annually to a student who deserves assistance.

**The Eliza Taylor Chisholm Memorial Scholarship**

A scholarship of \$150, given in 1901 by the Alumnae Association of Miss Chisholm's School, will be awarded annually by the Committee on Scholarships of the Faculty to a student in need of assistance, said Alumnae Association reserving the privilege of precedence for such candidates as they may recommend.

**The Graham School Scholarship**

A scholarship of \$150, given in 1901 by the Graham Alumnae Association, is awarded annually to a student who deserves assistance.

**Fiske Scholarships**

A sum of \$250, the income of a fund given by Mrs. Josiah M. Fiske, is awarded in aid of needy students.

**Hartley House Lectureship**

The importance of training in accurate habits of social observation as a preparation for the technical study of advanced problems in sociology or for the active work of philanthropy and social reform, has long been recognized by both teachers and practical workers. Provision for such training of students of Barnard College has been made in the founding of the Hartley House Fellowship. The holder of this Fellowship in 1897-8 and 1898-9 was Miss Lydia S. Cody, A.B. (Boston University), to whose suggestions and personal efforts the establishment of this instruction was largely due. The holder of the Fellowship for the years 1899-1902 was Mrs. Herbert Parsons, Ph.D. In 1902 the Fellowship was changed to a Lectureship, and is to be held for the year 1902-3 by Mrs. Herbert Parsons, Ph.D., who will

give personal direction to students wishing to undertake observational work, and the entire instruction will be under the general charge of the Professor of Sociology. The advantages offered will include opportunities to become familiar with the work of the more important private institutions for social betterment in New York City, such as the State Charities Aid Association, the Charity Organization Society, the New York Association for Improving the Condition of the Poor, and the various social settlements, as well as to study the organization and working of various public agencies charged with the welfare of the community. This work has the coöperation of Hartley House, which extends special facilities therefor, and also offers exceptional opportunities for summer residence to the students of sociology in the College.

## PRIZES

### Herrman Botanical Prize

28. A prize of \$50, founded by Mrs. Esther Herrman, will be awarded annually to the most proficient undergraduate student in botany.

### Kohn Mathematical Prize

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a Senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

### The Bunner Medal

The H. C. Bunner Gold Medal, provided for by the interest upon a fund of one thousand dollars, established in November, 1896, by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. Essays must be submitted to the President on or before May 1. The award will be made by a committee from the Division of English and Literature, to be appointed by the President. The subject for the Essay to be handed in May 1, 1902, "Abraham Lincoln as a Man of Letters"; for 1903, "Literary Influences that affected Hawthorne and Poe"; for 1904, "Style in the American State Papers of the Eighteenth Century."

**HONORS****General Honors**

**29.** General Honors are of two grades, Highest General Honors and General Honors, and are assigned not later than July 1 of each year, without application, to students who are not holders of scholarships, under the following conditions:

*Highest General Honors* are awarded to students whose work in the previous college year entitles them to high academic distinction.

*General Honors* are assigned to students of marked excellence who have not won Highest General Honors.

**Departmental Honors**

**30.** Departmental Honors are awarded at the end of the second year, the end of the third year, and the end of the course, and are known respectively as Sophomore Honors, Junior Honors, and Final Honors.

Each candidate for honors must give notice of the fact to the head of the department concerned not later than the beginning of the second half of the year in which she is to present herself for examination. Substitutes for the courses specified below for honors may be allowed by the Faculty on petition, when good cause is shown.

**Sophomore Honors**

Sophomore Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English and mathematics.

(a) **CLASSICS**—Candidates for Sophomore Honors in classics must have taken Greek **B** and **3** and Latin **A** or **B** and **1** for at least three hours a week, in both Freshman and Sophomore years, and must not have been classed below grade **C** in Greek **B** and Latin **A** or **B**, or below grade **B** in Greek **3** and Latin **1**. In addition they will be examined in reading Latin and Greek at sight, in Latin and Greek prose composition, and in some special subject connected with the Greek or Latin language or literature, the same to be announced on or before December 1 of each year.

(b) **GERMANIC LANGUAGES AND LITERATURES**—Candidates for Sophomore Honors in German must have taken at least two

courses in German, chosen from **2**, **3**, and **4**, and must not have been classed below grade B in any of them. They will also be examined in reading German at sight, in German conversation, and in some special subject connected with the German language and literature, the same to be announced on or before December 1 of each year.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Sophomore Honors in Romance languages must have taken at least two courses in French, chosen from **1**, **2**, **4**, and **5a**, and must not have been classed below grade B in any of them. They will also be examined in reading French at sight, in French conversation, and in some special subject connected with the French language or literature, the same to be announced on or before December 1 of each year.

They may, with the consent and approval of the Department of the Romance Languages and Literatures, be allowed to substitute courses in Italian for the courses in French above mentioned.

(d) ENGLISH—Candidates for Sophomore Honors in English must have attained a grade of at least B in English **B** and in an elective course in English. They must offer special work in connection with one of these courses. The subject of such special work shall be defined by the professor in charge, on conference with the candidate; and the honors shall be given, on special examination, to those candidates that attain grade A in the special work.

(e) MATHEMATICS—Candidates for Sophomore Honors in Mathematics must have taken mathematics during the Sophomore year and not have been classed below grade B in the course or courses taken, and will also be required to pass an examination on such additional work as may be announced by the Department of Mathematics on or before December 1 of each year.

### Junior Honors

Junior Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, mathematics, physics and chemistry, and history.

Candidates for Junior Honors in any subject must either have gained Sophomore Honors in the same subject; or have taken

the courses, and received the grade necessary to qualify them to compete for Sophomore Honors therein; or have been reported in grade A in all of the courses taken during Junior year in the department in which application for honors is made.

(a) CLASSICS—Candidates for Junior Honors must have taken courses in the department of Classical Philology amounting to at least three hours a week in both Greek and Latin, and must not have been classed below grade B in any such course. They will also be required to pass an examination on such additional matter as may be announced by the Department of Classical Philology on or before December 1 of each year.

(b) GERMANIC LANGUAGES AND LITERATURES—Candidates for Junior Honors in German must have taken two additional courses in the Germanic languages, and must not have been classed below grade B in any of them. They will also be required to pass an examination on some special subject selected by the Department of the Germanic Languages and Literatures, and announced on or before December 1 of each year.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Junior Honors in Romance languages must have taken courses amounting to at least three hours a week of additional work in French, and must not have been classed below grade B in any of them. They will also be required to pass an examination on some special subject selected by the Department of the Romance Languages and Literatures, and announced on or before December 1 of each year.

They may, with the consent and approval of the Department of the Romance Languages and Literatures, be allowed to substitute courses in Italian for the courses in French above mentioned.

(d) ENGLISH—Candidates for Junior Honors in English must select at least two courses in English and must offer special work in connection with one of these courses. The subject of such special work shall be defined each year by the professor in charge, on conference with the candidate; and the honors shall be awarded to those candidates who attain grade A in the special work, without falling below grade B in any other course or courses in English elected during the year.

(e) MATHEMATICS — Candidates for Junior Honors must have taken Mathematics 6, and must have pursued mathematics

during the Junior year and not have been classed below grade B in any of the courses taken. They will also be required to pass a special examination on some subject announced by the Department of Mathematics on or before December 1 of each year.

(f) PHYSICS AND CHEMISTRY—Candidates for Junior Honors must have taken a course in chemistry and one in physics during the Junior year, and must not have been classed below grade B in either of them. They will also be required to pass a special examination in some subject agreed upon by the Departments of Physics and Chemistry, and announced on or before December 1st of each year.

(g) HISTORY—Candidates for Junior Honors must have taken History A, and three additional courses, and must not have been classed below grade B in any of them. They will also be required to pass a special examination in some subject announced by the Professor of History on or before December 1 of each year.

#### Final Honors

Final Honors are awarded in classics, Germanic languages and literatures, Romance languages and literatures, English, mathematics, physics and chemistry, zoölogy and botany, history, economics and social science, and in philosophy.

Candidates for Final Honors in any subject must either have gained Junior Honors in the same subject; or have taken the courses and received the grade necessary to qualify them to compete for Junior Honors therein; or have been reported in grade A in all of the courses taken during Senior year in the department in which application for honors is made.

(a) CLASSICS—Candidates for Final Honors must have taken courses in the departments of Greek and Latin, in the Senior year, amounting to at least six hours a week, and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject announced by the Department of Classical Philology on or before December 1 preceding.

(b) GERMANIC LANGUAGES AND LITERATURES—Candidates for Final Honors in the Germanic languages must have taken

additional courses amounting to not less than four hours a week in the Germanic languages, and must not have been classed below grade B in any of them. They will be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject selected by the Department of the Germanic Languages and Literatures, and announced on or before December 1 preceding. They must also show their ability to read with ease ordinary French.

(c) ROMANCE LANGUAGES AND LITERATURES—Candidates for Final Honors in Romance Languages must have taken additional courses in the Romance languages amounting to not less than four hours a week, and must not have been classed below grade B in any of them. They will be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject selected by the Department of the Romance Languages and Literatures, and announced on or before December 1 preceding. They must also show their ability to read German with ease.

(d) ENGLISH—Candidates for Final Honors in English must elect at least two courses in English and must offer special work in connection with one of these courses. The subject of such special work in each course shall be defined by the professor in charge on conference with the candidate; and the honors shall be given on special examination to those candidates who attain grade A in the special examination without falling below grade B in any other course or courses in English elected during the year. As part of her special work, each candidate must submit, on or before May 1, an essay of not less than 3000 words, dealing with some aspect of the subject with which she is to be examined.

(e) MATHEMATICS—Candidates for Final Honors must have taken two courses chosen from Mathematics 5, 7, 8, and Mechanics 3b, and must not have been classed below grade B in either of them. They will also be required to submit, on or before May 1, special work on some subject announced by the Department of Mathematics on or before December 1 preceding.

(f) PHYSICS AND CHEMISTRY—Candidates for Final Honors must have taken at least one additional course in physics and at least one in chemistry; and must not have been classed below

grade B in any of them. They will also be required to submit, on or before May 1, a satisfactory essay on some subject agreed upon by the Departments of Physics and Chemistry, and announced on or before December 1 preceding.

(g) ZOOLOGY AND BOTANY—Candidates for Final Honors must have taken at least one course in chemistry or geology, one in botany, and three in zoölogy; or one in chemistry or geology, one in zoölogy, and three in botany, including laboratory work in all of the subjects; and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, a satisfactory essay on some subject agreed upon by the Professors of Zoölogy and Botany, and announced on or before December 1 preceding.

(h) HISTORY—Candidates for Final Honors must have taken at least three additional courses in history, and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, a satisfactory essay containing not less than 5000 words on some subject announced by the Professor of History on or before December 1 preceding.

(i) ECONOMICS AND SOCIAL SCIENCE—Candidates for Final Honors must have taken Economics I, and must not have been classed below grade B in either that or Economics A. They must also have taken all the courses in economics and finance offered to Seniors, and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject agreed upon by the Professors of Economics and Social Science, and announced on or before December 1 preceding.

(j) PHILOSOPHY—Candidates for Final Honors, must not have been classed below grade B in Psychology A, and must have taken at least three courses for an entire year from among those offered to Seniors by the Departments of Philosophy and Psychology and must not have been classed below grade B in any of them. They will also be required to submit, on or before May 1, an essay containing not less than 5000 words on some subject assigned by the Professors of Philosophy, Ethics, and Psychology, and announced on or before December 1 preceding.

### THE UNIVERSITY LIBRARY

31. The University Library is open daily from 8.30 A.M. until 11 P.M. All officers, students and graduates of all departments of the University have free access to the Library and may draw books for home use. Undergraduates and alumni may draw books not exceeding three volumes in number for a period not exceeding two weeks, subject to renewal in proper cases.

The reference library of about 10,000 volumes is kept in the general reading-room and may be used freely by all persons. It consists of a carefully selected body of reference books and of the most important works on all subjects in recent editions, including the leading authors in all literature. This collection is supplemented by special lists of books recommended, from time to time, by officers of instruction for reference in connection with their various courses.

The entire Library is carefully and accurately catalogued both by authors and subjects. The catalogue is on cards accessible to the public. Competent reference librarians are on duty to render any needed assistance to readers.

The Library contains over 315,000 volumes, exclusive of unbound pamphlets and duplicates. The additions to the Library for the past five years have averaged over 18,000 volumes annually. The Library is well furnished in all the subjects taught in the various courses of the University.

### DEPARTMENTAL STATEMENTS

32. NOTE—The hours for laboratory work are not given in the Scheme of Attendance; they must be arranged on consultation with the officers in charge of the courses.

The credit given for each course is counted in points, not in hours. Courses marked with an asterisk (\*) are given at Columbia University and are open only to Seniors. Courses marked with a dagger (†) are given at Teachers College.

For more detailed information in regard to topics, text-books, or methods, in any particular course, students are referred to the instructors.

**Anthropology** See **Philosophy and Psychology****Astronomy**

\* 1—**General Astronomy.** Professor REES assisted by Dr. MITCHELL. Two points.

Tu. and Th. at 11.30.

Open to Seniors.

\* 2—**Spherical and Practical Astronomy.** Professor REES and Dr. MITCHELL. Two lectures and two hours of observatory work, counting as three points.

M. and W. at 2.30.

These days and hours may be changed if students electing the subject so desire.

Open to Seniors who have taken Mathematics 6.

For fuller information regarding the scope of the courses in the Department of Astronomy, the student is referred to the pamphlet giving the Announcement of the Faculties of Political Science, Philosophy, and Pure Science for 1902-1903.

**Biology** See **Zoology****Botany**

51—**Elementary Botany.** Dr. RICHARDS. Five hours, lectures, demonstrations and laboratory work, counting as three points.

M., W., and F. at 9.30.

52—**General Morphology and Development of Plants.** Miss DUNN. Two lectures, four hours of laboratory work, counting as four points.

Two additional hours of laboratory work may be taken, in which case Botany 52 will count as five points.

Tu. and Th. at 10.30.

Course 52 should be preceded by 51, but is open, on consultation with the instructors, to students of sufficient training who also either attend the lectures in 51 or elect the full six hours of laboratory work in Course 52.

3—**Morphology and Ecology of Phanerogams.** Miss DUNN. With practice in determination of species. Four hours, counting as two points. Either half-year may be taken separately.

Open to students that have taken, or are taking, Course 51.

5—**Anatomy of Vascular Plants.** Dr. RICHARDS. Two lectures and a minimum of six hours of laboratory work, first half-year.

**55—Physiology of Plants.** Dr. RICHARDS. Two lectures and a minimum of six hours of laboratory work, second half-year.

Courses 54 and 55 count as five points for the year.

Courses 54 and 55 presuppose a knowledge of the more elementary courses. Open to students only after consultation with the instructor.

**56—Structure and Development of Algæ.** Dr. RICHARDS. Advanced course. One lecture, six hours of laboratory work, counting as two points, half-year.

Open to students that have taken Courses 51 and 52.

**57—Structure and Development of Fungi.** Dr. RICHARDS. Advanced course. One lecture, six hours of laboratory work, counting as two points, half-year.

Open to students that have taken Courses 51 and 52.

Courses 56 and 57 are given either the first or second half-year to suit the convenience of the instructor and students.

**58—Advanced Physiology and Morphology.** Dr. RICHARDS and Miss DUNN. Written work, and a minimum of eight hours of laboratory work, counting six points. Work will be arranged to suit the needs of the students.

Open, on consultation with the instructor, to students that have taken Courses 51, 52, 54, and 55, or their equivalents.

### Chemistry

**1—General Inorganic Chemistry.** Dr. MALTBY and Miss KELLER. Three lectures and two hours of laboratory work, counting as four points.

M., W., and F. at 12.30.

**3—Elementary Physical Chemistry.** Dr. MALTBY. Three lectures and two or four hours of laboratory work, counting as four or five points. Hours to be arranged.

Open to students that have taken Chemistry 1 and Physics 1.

**7—Qualitative Analysis.** Miss KELLER. Two lectures and a minimum of six hours of laboratory work, counting as five points. Hours to be arranged.

Open to students that have taken Course 1.

**20—Organic Chemistry, Elementary Lecture Course.** Dr. CHAMBERS. Two lectures counting as two points. Text-book: Remsen's *Organic Chemistry*.

Tu. and Th. Hours to be arranged.

Open to students that have taken Course 1. It is urged that, if possible, Course 30 be taken with this course.

**30—Organic Chemistry, Elementary Laboratory Course.** Dr. CHAMBERS. Eight hours, counting as four points.

Tu. and Th. Hours to be arranged.

This course is designed to teach the student the important methods of preparation of organic compounds, of elementary analyses, and of vapor-density determinations. Text-book: Gattermann's *Practical Methods of Organic Chemistry*. Prerequisite: Courses 1 and 20 (or it may be taken at the same time with Course 20).

#### Organic Chemistry, Advanced Course.

This course is designed to supplement Courses 20 and 30. Such subjects as the fats, waxes, sugars, diazo-compounds, phthaleins, quinones, terpenes, synthetical perfumes and flavoring extracts, synthetical drugs, etc., are treated, special emphasis being given to the historical development of our knowledge of each subject.

The laboratory work consists of the preparation of organic compounds referred to in the lectures and the study of their reactions. Two lectures and six hours of laboratory work during one year. Text-books: Richter's *Organic Chemistry* and Gattermann's *Practical Methods of Organic Chemistry*.

Minor for A. M. or Ph.D. Prerequisites: Courses 1, 20, 30.

### Economics and Social Science

**Economics A—Outlines of Economics.** Study of the characteristics of modern industrial society and of the fundamental economic principles. Professor MOORE and Mr. JOHNSON. One and one-half points, first half-year.

Section I, Tu., Th., S., 9.30; Section II, Tu., Th., 11.30, S. 9.30; Section III (if needed), Tu., Th., 1.30, S., 9.30.

Prescribed for Juniors. Open to qualified Sophomores who take Course 1.

This course is given in two or, if necessary, in three sections. Students are assigned to the sections in alphabetical order, but for reasons of weight, with the consent of the Dean, a student may be transferred to a section other than that to which she properly belongs.

**Economics 1—Economic History of England and the United States,** with constant attention to the evolution of present economic conditions and the rise of current social problems. Professor MOORE and Mr. JOHNSON. One and one-half points, second half-year.

M., W., and F. at 10.30.

This course forms a natural supplement to Course A and should be elected by students who desire a broad understanding of economic questions.

Open to Juniors, Seniors, and properly qualified Sophomores.

**Economics 2—Economic Readings.** Professor MOORE. Two points.

Tu. and Th. at 1.30.

First half-year: The social teachings of Carlyle, J. S. Mill, Kingsley, Ruskin and J. H. Green.

Second half-year: The recent development of Economics in England, with a critical study of Marshall's *Principles of Economics*.

Open to students that have taken Course A or an equivalent.

**Economics 3—Practical Economics.** Professor SEAGER. One point, second half-year.

Tu. and Th. at 1.30.

This course suggests how economic theories are to be applied to the solutions of questions of the day. The topics discussed are money, banking, taxation, government expenditures, foreign trade, monopolies and trusts, and the legal regulation of industries. The course forms a natural supplement to Course 6.

Open to students that have taken Course A or an equivalent.

**Economics 6—The Labor Problem.** Professor SEAGER. One point, first half-year.

Tu. and Th. at 1.30.

The topics considered in this course are the rise of the factory system, the relation between work and pay, present methods of payment, labor organizations, collective bargaining, strikes and lock-outs, arbitration and conciliation, labor legislation, industrial insurance, and the future of labor in the United States. The course should be elected in conjunction with Course 3 by all students desiring a whole year's work in practical economics.

Open to students that have taken Course A or an equivalent.

**Economics 11—Communistic and Socialistic Theories.** Professor CLARK. One point, first half-year.

Tu. and Th. at 11.30.

Open to Seniors.

**Economics 12—Theories of Social Reform.** Professor CLARK. One point, second half-year.

Tu. and Th. at 11.30.

Open to Seniors.

**Sociology 15—Principles of Sociology.** Professor GIDDINGS. Two points.

Tu. and Th. at 2.30.

Open to Seniors.

**Sociology 16—Family Organization.** DR. ELSIE CLEWS PARSONS. One point.

Tu. at 3.30 bi-weekly.

Field work in the study of family groups. Consultations.

Open to Seniors.

In connection with the lectures and field work of this course opportunities are given to students to become acquainted with the more important private institutions for social betterment in New York City and to study the organization and activity of the various public agencies charged with the welfare of the community.

**Education** See *Philosophy and Psychology*

**English Language and Literature**

**A—Rhetoric, English Composition and Literature.** Professor BREWSTER, Mr. HAMILTON, Miss GILDERSLEEVE and Miss BERKELEY. Recitations, themes, lectures. Three points.

Tu., Th., and S. at 10.30.

Prescribed for Freshmen.

**B—English Composition and Literature.** Professor BREWSTER, Miss GILDERSLEEVE and Miss BERKELEY. Lectures, themes, consultations. Three points.

Tu. and Th. at 1.30 and a third hour to be arranged.

Prescribed for Sophomores.

**1—English Composition.** Professor BREWSTER. Lectures, daily themes. One and one-half points, first half-year.

Tu. and Th. at 9.30, and a third hour to be arranged.

Open to students that have taken Course B.

**[2a—English Composition.]** Professor BREWSTER. Essays, lectures and discussions. One and one-half points, alternate second half-years.

Open to students that have taken Course 1. Given in alternation with Course 2b.

*Not given in 1902-3.]*

**2b—English Composition and Literature, with Special Attention to Expository and Critical Writing.** Professor BREWSTER. One and one-half points, alternate second half-years.

Tu. and Th. at 9.30 and a third hour to be arranged.

Open to students that have taken Course I. Given in alternation with Course 2a.

**10—English Essayists of the Nineteenth Century.** Professor G. R. CARPENTER. Two points.

Tu. and Th. at 11.30.

Open to students that have taken Course A.

Course 10 alternates with Course 21.

**15—Anglo-Saxon and Historical English Grammar.** Dr. KRAPP. Two points.

M. and W. at 1.30.

Open to students that have taken Course A.

**16—Anglo-Saxon Literature—Poetry and Prose—with Special Attention to Beowulf.** Professor TRENT. Two points.

M. and W. at 12.30.

Open to students that have taken Course 15.

Course 16 alternates with Course 17.

[**17—Middle English Literature—Poetry and Prose—with Special Attention to Chaucer.** Professor TRENT. Two points.

Open to students that have taken Course 15.

*Not given in 1902-3.]*

**19—Shakspere: Language, Versification and Method of Dramatic Poetry.** Professor PRICE. Two points.

Tu. and Th. at 10.30.

Open to students that have taken Course A.

**20—Victorian Poetry.** Professor TRENT. Two points.

M. and W. at 11.30.

Open to students that have taken Course A.

Course 20 alternates with Course 23.

[**21—American Literature.** Professor G. R. CARPENTER. Two points.

Open to students that have taken Course A.

*Not given in 1902-3.]*

[**23—English Poetry.** A general survey from Chaucer to modern times. Professor TRENT. Two points.

Open to students that have taken Course A.

Course 23 may be taken up or dropped at the mid-year.

*Not given in 1902-3.]*

**24—English Prose.** General survey from the Restoration to modern times. Professor BREWSTER. Two points.

M. and W. at 2.30.

Open to students that have taken Course A.

Course 24 may be taken up or dropped at the mid-year.

After 1902-3 this course will alternate with a special course in English fiction.

\*47—English Literature in the Seventeenth Century, with Special Attention to Milton and Dryden. Professor TRENT. Two points.

Tu. and Th. at 11.30.

Open to Seniors that have taken any two of the following courses: English, 10, 16, 17, 19, 20, 21, 23, and 24.

#### French See Romance Languages and Literatures

#### Geography

†1—General Geography. Professor DODGE. Lectures and laboratory work, counting as two points.

Tu. and Th., 9.30-11.30.

Open to all undergraduate students.

†2—General Geography (continued). Professor DODGE. Lectures and laboratory work, counting as two points.

Tu. and Th., 1.30-3.30.

Open to undergraduate students that have had Geography 1 or its equivalent.

†10—Physiography—first half-year. Geography of the United States—second half-year. Professor DODGE. Lectures, laboratory, and library work, counting as three points.

M. and W., 9.30-11.30.

Open to Juniors and Seniors.

The first half-year may be elected separately, counting as one and one-half points.

Courses in Methods of Teaching Geography in Elementary and in Secondary Schools are also offered. See Education 32, 72.

#### Geology

2—General Geology. Lithological, dynamical, physical, and historical geology, including laboratory work with rocks and fossils. MR. FINLAY. Three points.

M., W., and F. at 4.30.

As a preliminary to this course it is desirable although not essential that students should have taken Chemistry 1 and Zoölogy 2, and that they should have some knowledge of Mineralogy.

### Germanic Languages and Literatures

#### *German*

**A—Elementary Course.** Mr. BRAUN and Dr. TOMBO. Three points.

Section I, Tu., Th., S. at 9.30. Section II, M., W., and F. at 2.30.

Prescribed for Freshmen who did not present German at entrance.

**2—Grammar, Reading, and Composition.** Mr. BRAUN. Three points.

Section I, M., W., and F. at 1.30. Section II at 2.30.

Open to students who presented German at entrance.

**3a—Selected Works of Goethe, Schiller, and Lessing.** Texts, chiefly dramatic, and essays in German. Intended primarily for students who have not previously read works of these authors. Dr. TOMBO.

M., W., and F. at 1.30.

**3b—Selected Works of Goethe, Schiller, and Lessing.** Texts and essays in German. Intended primarily for students who have some acquaintance with the works of these authors. Dr. TOMBO.

M., W., and F. at 3.30.

**4—Historical Prose.** One volume of Freytag's *Bilder aus der deutschen Vergangenheit*, and other works of a historical or critical character. Mr. BRAUN. Three points.

Tu., Th., and S. at 10.30.

**\*6a—History of German Literature** from the earliest times to the Reformation. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Tu., and Th. at 9.30.

Open to students that have taken Course 3 or 4.

*Given at Barnard College 1903-4.*

[**\*6b—History of German Literature** from the Reformation to the 19th century. Lectures, themes, and readings from Müller's *German Classics*. Professor THOMAS. Two points.

Open to students that have taken Course 3 or 4.

*Not given in 1902-3.]*

**7—Goethe's Faust;** first and second parts. Lectures and recitations. Professor THOMAS. Two points.

Tu. and Th. at 11:30.

Open to Seniors that have taken Course 6.

**8—Practice in Speaking and Writing German.** Talks, conferences, and themes, all in German, upon linguistic and literary topics. Dr. TOMBO. Two points.

Tu. and Th. at 1.30.

Open to students that have taken Course 3 or 4.

[\***10a—Great German Writers.** Lessing (first half-year) and Goethe (second half-year). Lectures and essays. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1902-3; given in 1903-4.]*

**\*10b—Great German Writers.** Schiller (first half-year) and Heine (second half-year). Lectures and essays. Professor THOMAS. Two points.

W. and F. at 10.30.

Open, with the permission of the instructor, to Seniors.

**\*11—Old High German.** Professor W. H. CARPENTER  
Two points.

Tu. and Th. at 1.30.

Open, with the permission of the instructor, to Seniors.

[\***21—Middle High German.** Professor W. H. CARPENTER.

Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1902-3; given in 1903-4.]*

**\*20—Geschichte der deutschen Litteratur im 19. Jahrhundert mit besonderer Rücksicht auf die lyrische Poesie.** Vorlesungen in deutscher Sprache. Professor THOMAS. Two points.

W. and F. at 11.30.

Open, with permission of the instructor, to Seniors.

**25—Geschichte der deutschen Litteratur im 19. Jahrhundert.** Vorlesungen in deutscher Sprache. Dr. TOMBO. Two points.

Tu. and Th. at 2.30.

Open to students that have taken Course 3 or 4.

### *Scandinavian*

[\***12—Swedish.** Elementary course in the language, with miscellaneous reading, and a general survey in lectures of the history of Swedish literature. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1902-3.]*

[\*13—**Danish.** Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Danish and Norwegian literature. Professor THOMAS. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1902–3.]*

[\*14—**Icelandic.** Elementary Course. Professor W. H. CARPENTER. Two points.

Open, with the permission of the instructor, to Seniors.

*Not given in 1902–3; given in 1903–4.]*

\*15—**Icelandic.** Advanced Course. Professor W. H. CARPENTER. Two points.

Tu. and Th. at 3.30.

Open, with the permission of the instructor, to Seniors.

#### *Low German*

\*16—**Dutch.** Elementary course in the language, with miscellaneous reading and a general survey in lectures of the history of Dutch literature. Professor W. H. CARPENTER. Two points.

Tu. and Th. at 2.30.

Open, with the permission of the instructor, to Seniors.

\*24—**Old Saxon.** Elementary Course. Dr. R. TOMBO, Jr. Two points.

M. and W. at 3.30.

Open, with the permission of the instructor, to Seniors.

#### *Gothic*

\*17—**Gothic.** Elementary Course. Dr. REMY. Two points.

Tu. and Th. at 2.30.

Open, with the permission of the instructor, to Seniors.

#### *Germanic Philology*

\*18—**General Introduction to Germanic Philology.** Lectures and exercises. Professor W. H. CARPENTER. Two points.

M. and W. at 2.30.

Open, with the permission of the instructor, to Seniors.

#### *Greek*

**A—Beginners' Course:** Grammar, Composition, Xenophon's *Anabasis*, Homer's *Iliad*. Miss HIRST. Three hours a week throughout the year.

To be counted as three points by such students as subsequently pass the entrance examinations in Elementary Greek or an equivalent examination.

M., W., and F. at 2.30.

**B—Plato : Apology and Crito, with a part of Phædo ;** first half-year. **Homer : The Odyssey (Selections) ;** second half-year. Greek prose composition fortnightly throughout the year. Mr. BURCHELL. Three points.

M., W., and F. at 12.30.

Open to Freshmen that have presented Greek at entrance or that have satisfied the conditions of Course A.

**3—Euripides : Alcestis and Medea ;** required private reading; first half-year. **Demosthenes : De Corona ;** private reading as above; second half-year. Professor EARLE and Mr. BURCHELL. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course B or its equivalent.

An additional hour weekly, to be given in prose composition, will be offered, and students that take this may count Course 3 as four points or Course 4 as three points.

**4—Rapid Reading of Homer.** Professor KNAPP and Mr. BURCHELL. Two points.

Tu. and Th. at 10.30.

Open as an elective to Juniors and Seniors; also to qualified Freshmen and Sophomores.

**6—Sophocles : Oedipus Tyrannus and Antigone ;** first half-year. **Thucydides (VI and VII) ;** second half-year. For private reading in the course of the year: **Aeschylus's Prometheus Vinctus.** Professor EARLE. Three points.

M., W., and F. at 1.30.

Open to Juniors and Seniors.

**7—Advanced Greek Prose Composition.** Mr. BURCHELL and Professor EARLE. One session weekly, with written exercises, counting as two points.

Th. at 12.30.

Open to Juniors and Seniors. Required of candidates for Junior Honors in Classics.

**8—New Testament Greek :** Reading of the Gospel according to Luke and the Acts of the Apostles with special regard to the forms and idioms of New Testament Greek. Professor EARLE. Two points.

Hours to be arranged.

Open to especially qualified Juniors and Seniors.

**12—Lyric Poets**; first half-year. **Bacchylides, Pindar and Theocritus**; second half-year. Professor PERRY. Three points. M., W., and F. at 10.30.

Open to Seniors and specially qualified Juniors.

**31—Plato: The Republic**; first half-year. **Æschylus** (select plays); second half-year. Professor EARLE. Three points. M., W., and F. at 9.30.

Open to Juniors and Seniors.

(For Teachers' Course, by Professor Lodge, see Education 76.)

### History

**A—Epochs of Ancient, Mediæval, and Modern History**, with special reference to forms of government and changes in social conditions. Mr. SHOTWELL. Three points.

Section I, M., W., and F. at 10.30. Section II, M. and W. at 10.30, F. at 11.30.

Prescribed for Sophomores, but may be taken as an elective by Freshmen.

**1—Mediæval and Modern History to the Peace of Westphalia.**

Mr. SHOTWELL and Mr. GARNER. Three points.

M., W., and F. at 2.30.

Open to Juniors, and to Sophomores who have taken Course A.

This course covers practically the same period as Course 11, but treats different phases of the political and social development, such as Charlemagne's Empire, Feudalism, the Mediæval Church in its political and social aspects, the Crusades, the Towns, especially the Italian city-states in the 14th and 15th centuries, the rise of the Modern Monarchies, the Empire of Charles V, and the Protestant Revolt.

**2—Continental and English History**, modern and contemporaneous. Miss DAVISON. Three points.

Tu. and Th. at 3.30, with a third hour to be arranged.

Open to Juniors, and to Sophomores who have taken Course A.

This course includes a study of the Revolutionary and Napoleonic periods and the development of the European states, including England since 1815. An especial effort will be made to prepare the student to understand current European political and social issues.

**3—English History to the Reform Bill, 1832.** Dr. SILL. Three points.

M., W., and F., at 10.30.

Open to Juniors, and to Sophomores who have taken Course A.

**4—History of the United States to the Close of Reconstruction.** Mr. SMITH. Three points.

M., W., and F. at 11.30.

Open to Juniors, and to Sophomores who have taken Course A.

**[6—The History of England during the Eighteenth and Nineteenth Centuries.]** Prof. OSGOOD and Dr. CUSHING. Two points.

Open to Seniors and, with the permission of the Dean, to Juniors.

*Not given in 1902-3.]*

Courses 6 and 16 are given in alternate years.

**11—Development of Culture during the later Middle Ages, Renaissance, and Protestant Revolution.** Professor ROBINSON. Three points.

Tu. at 3.30, and Th. at 2.30 and 3.30.

Open to Seniors and, with the permission of the Dean, to Juniors.

**16—Constitutional History of England to 1689.** Professor OSGOOD. Two points.

Tu. and Th. at 2.30.

Open to Seniors.

Courses 6 and 16 are given in alternate years.

**31—Political and Constitutional History of the United States.** Dr. CUSHING. One point, first half-year.

Tu. and Th. at 4.30.

Open to graduate students and Seniors. It is strongly recommended that students intending to take this course should first take History 4.

The lectures will deal particularly with the sources of the national Constitution, the steps incident to its establishment, the political controversies involved in its later application to the actual development of the nation, and its gradual growth through judicial interpretation. It will conclude with a consideration of those problems which formed the preliminaries of the Civil War.

**50—Greece and Rome.** Dr. SILL. Three points.

Tu. and Th. 9.30, with a third hour to be arranged.

Open to Seniors and, with the permission of the Dean, to Juniors.

This course will follow the development of Greek politics and civilization from the Mycenæan to the Hellenic age and the rise of Rome to supremacy in Italy.

**[51—The Roman Empire.]** Dr. SILL. Three points.

Open to Seniors and, with the permission of the Dean, to Juniors.

*Not given in 1902-3.]*

Course 51, which alternates with Course 50, brings the history of the Empire and the western world down through the Barbarian Invasions to Charlemagne's time.

**Italian** See Romance Languages and Literatures

**Latin**

**A—Cicero** : *De Senectute* and *De Amicitia*; prose composition weekly; first half-year. **Horace** : *Odes I* and *II*; prose composition continued; second half-year. Mr. BURCHELL and Miss HIRST. Three points.

M., W., and F. at 9.30.

Prescribed for Freshmen that do not take Course **B**.

**B—Livy** : Books *XXI* and *XXII*; prose composition weekly; first half-year. **Horace** : *Odes III* and *IV*; prose composition continued; second half-year. Mr. BURCHELL and Miss HIRST. Three points.

Tu., Th., and S. at 9.30.

Prescribed for Freshmen that do not take Course **A**.

**1—Tacitus** : *Agricola* and *Germania*; first half-year. **Satires** and **Epistles of Horace**; second half-year. Professor KNAPP. Three points.

M., W., and F. at 9.30.

Open to students that have taken Course **A** or Course **B**.

**2—Catullus and Tibullus**; first half-year. **The Letters of Cicero**; second half-year. Professor EARLE and Mr. BURCHELL. Two points.

Tu. and Th. at 11.30.

Open to students that have taken Course **A** or Course **B**.

An extra hour weekly will be offered in prose composition, and students who take this may count Course **1** as four points or Course **2** as three points.

**3—Cicero** : *De Natura Deorum*; prose, first half-year. **Lucretius**; second half-year. Professor McCREA. Three points.

M., W., and F. at 10.30.

Open to students that have taken Course **1** or Course **2**.

**4—Terence** : *Andria* and *Phormio*; first half-year. **Plautus** : *Captivi* and *Mostellaria*; second half-year. Professor KNAPP. Three points.

M., W., and F. at 12.30.

Open to students that have taken Course **1** or Course **2**.

**22—Advanced Latin Prose Composition.** Professor KNAPP. One session weekly, with written exercises, counting as two points.

Tu. at 12.30.

**34—Cicero : De Officiis ;** first half-year. **Juvenal ;** second half-year. Professor KNAPP. Three points.

M., W., and F. at 11.30.

Open to Juniors and Seniors.

**35—Quintilian (Book X) and Horace's De Arte Poetica ;** first half-year. **Livy (selections) ;** second half-year. Mr. BURCHELL and Professor KNAPP. Two points.

Tu. and Th. at 10.30.

Open to Juniors and Seniors.

(For Teachers' Course by Professor Lodge, see Education 82.)

### Mathematics

**A—Geometry, Algebra, and Trigonometry.** Solid geometry; algebra, including progressions, permutations and combinations, and logarithms; plane trigonometry, including the use of tables of logarithms. Dr. KASNER and Dr. FINDLAY. Three points.

Section I, M., W., and F. at 9.30. Section II, M., W., and F. at 10.30. Section III, M., W., and F. at 11.30. Section IV, Tu., Th., and S. at 9.30.

Prescribed for Freshmen who did not present advanced mathematics at entrance.

**1—Analytical Geometry.** Introduction to the analytical geometry of the plane and of space. Dr. KASNER. One and one-half points. First half-year.

M., W., and F. at 10.30.

Open to students that have taken Course A or presented advanced mathematics at entrance.

**2—Calculus.** Elementary course in the differential and integral calculus. Dr. KASNER. One and one-half points, second half year.

M., W., and F. at 10.30.

Open to students that have taken Course 1.

Courses 1 and 2 are required for admission to all advanced courses.

**3—Theory of Equations.** Algebraic and numerical solution of equations, determinants, complex numbers. Dr. FINDLAY. Three points.

M., W., and F. at 1.30.

Open to students that take, or have taken, Course 1.

**[5—Projective Geometry.]** Projective methods of pure geometry. Three points.

Open to students that take, or have taken, Course 6.

*Not given in 1902-3.]*

**6—Calculus.** Differential and integral calculus. Professor COLE. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course 2.

**7—Differential Equations.** Ordinary and partial differential equations, with application to geometry. Dr. KASNER. Three points.

Hours to be arranged.

Open to students that have taken Course 6.

**8—Advanced Analytical Geometry.** Modern methods in analytical geometry; solid analytical geometry. Dr. FINDLAY. Three points.

Tu., Th., and S. at 10.30.

Open to students that take, or have taken, Course 6.

**† 51—History of Mathematics.** Professor D. E. SMITH. Two points.

M. and W. at 9.30.

Other courses in the history and teaching of mathematics are offered in Teachers College.

### Mechanics

**[3b—Theoretical Mechanics.]** Dr. KASNER. Three points.

Open to students that have taken Mathematics 6.

*Not given in 1902-3.]*

### Music

**[\* 1—General Musical Course.]** History and analysis with illustrations. Professor MACDOWELL.

*Not given 1902-3.]*

**[\* 2—General Musical Course, advanced.]** Modern music, instrumentation, and forms, with illustrations. Professor MACDOWELL.

*Not given 1902-3.]*

\* 3—**Harmony.** Mr. McWHOOD. Two points.

F. at 10.30-12.30.

Students in Course 3 are required, unless excused, to take also either Course 6 or Course 10.

\* 4—**Counterpoint.** Mr. McWHOOD. Two points.

Tu. at 10.30-12.30.

[ \* 5—**Orchestration and Symphonic Form.** Professor MAC-DOWELL.

*Not given 1902-3.]*

\* 6—**Musical Dictation.** Mr. McWHOOD. One point.

F. at 1.30.

\* 7—**Advanced Harmony and Practical Composition.** Mr. McWHOOD. One point.

Tu. at 1.30, first half-year.

Students in Course 7 are required to take also either Course 6 or Course 10.

\* 9—**University Orchestra.** Mr. HINRICHs. Two points.

W. at 4.30-6.30.

Course 9 may not be counted toward a degree. It is open, without fee, to all students in the University.

\* 10—**Musical Dictation, advanced.** Mr. McWHOOD. One point.

Tu. at 2.30.

[ \* 11—**Free Composition, advanced course.** Professor MAC-DOWELL.

*Not given 1902-3.]*

\* 12—**Analysis of Musical Sound.** Mr. McWHOOD. One point.

Tu. at 1.30, second half-year.

A Barnard Chorus, conducted by Mr. HINRICHs, is held one hour weekly, at 2.30 on Tuesdays. This Chorus is open to all students, without fee.

## Philosophy and Psychology

### Philosophy

\* 1—**Historical and Critical Introduction to Philosophy.** Weber's *History of Philosophy*; Windelband's *History of Philosophy*; Paulsen's *Introduction to Philosophy*. Lectures,

essays, and private reading. Professor WOODBRIDGE assisted by Dr. SHELDON. Three points.

M., W., and F. at 2.30.

Open to Seniors.

This Course serves as a general introduction to the study of Philosophy, and is prerequisite to Courses 3, 6, 11, 12, 13, and 14.

**2—Ethics.** Recitations, essays, and discussions. Mackenzie's *Manual of Ethics*. Professor LORD. Second half-year. One and one-half points.

M., W., and F. at 9.30.

This course is prerequisite to Course 5.

Open to students that have taken Psychology A.

[\*3—**The Philosophy of Kant and his Successors:** Fichte, Schelling, Hegel, Herbart, and Schopenhauer. Lectures, essays, and private reading. Professor WOODBRIDGE. Two points.

Open to specially qualified Seniors who have taken Course 1 or its equivalent.

*Not given in 1902-3.]*

[\*4—**British Philosophy from Locke to Herbert Spencer;** history and criticism of the association psychology and the philosophy of evolution—Locke's *Essay on the Human Understanding*; Berkeley's *Principles of Human Knowledge*; Hume's *Treatise on Human Nature*; the writings of Hartley, Brown, the Mills, and Bain; Herbert Spencer's *First Principles*. Lectures, essays, and private readings. Professor WOODBRIDGE. Two points.

Open to Seniors that have taken Course 1.

*Not given in 1902-3.]*

**\*5—Practical Ethics.** Lectures, private reading, observation, essays, and discussions. Professor HYSLOP. Two points.

Open to specially qualified Seniors who have taken Course 2 or its equivalent.

[\*6—**Epistemology.** Lectures, discussions, and essays. Professor HYSLOP. Two points.

Open to specially qualified Seniors.

*Not given in 1902-3.]*

[\*7—**Ethics, advanced course.** Lectures, essays, and discussions. Professor HYSLOP. Three points.

Open to specially qualified Seniors.

*Not given in 1902-3.]*

\*8—**Principles and Problems of Aæsthetics.** Lectures, essays, and discussions. Dr. JONES. Two points.

Tu. and Th. at 12.30.

Open to Seniors.

Two hours of laboratory work, counting as an additional point, may be taken in connection with this course.

9—**Logic and Scientific Method.** Creighton's *Introductory Logic*; Jevons's *Principles of Science*. Recitations and discussions. Dr. JONES. Second half-year. One and one-half points.

M., W., and F. at 9.30.

\*10—**Journal Club.** Reports and discussions on contemporary literature. One hour weekly. Dr. JONES. One point.

Hour to be arranged to meet the convenience of students.

Open to Seniors.

\*11—**Cosmology.**—Pearson's *Grammar of Science*; Ward's *Naturalism and Agnosticism*. Lectures. Dr. SHELDON. Two points.

Tu. and Th. at 10.30.

Open to Seniors.

\*12—**Philosophical Practicum: Selected Topics in Modern Philosophy,** principally taken from the writings of Hegel and of Herbart. President BUTLER. Two points.

\*13—**Metaphysics.** Lectures, discussions, and essays. Professor HYSLOP. Two points.

Tu. and Th. at 3.30.

### Psychology

A—**The Elements of Psychology.** James's *Psychology*, briefer course. Discussions, practical exercises and recitations. Professor LORD and Dr. JONES. One and one-half points, first half-year.

Sections I and II, M., W., and F. at 9.30.

Prescribed for Juniors, unless taken in Sophomore year by permission of the Dean.

This course is given in two sections. Students are assigned to the sections in alphabetical order, but for reasons of weight, with the consent of the Dean, a student may be transferred to a section other than that to which she properly belongs.

**10—Analytic Psychology, Introductory Course.** Recitations and discussions. Professor LORD. One and one-half points, second half-year.

Tu., Th., and Sat. at 9.30.

This course is in continuation of **Psychology A**. It is designed to study intensively certain topics necessarily omitted altogether, or but briefly discussed in the previous course. James's *Principles of Psychology*, and Stout's *Manual of Psychology* will be used as text-books.

Prerequisite **Psychology A**.

**\*2—Experimental Psychology**, introductory course. Lectures, themes, demonstrations and experiments. Professor CATTELL. Two points.

Tu. and Th. at 10.30.

Open to Seniors.

**\*3—Experimental Psychology**. Laboratory work. Two or four hours weekly, counting as one or two points. Professor CATTELL assisted by Mr. DAVIS.

Tu. and Th. at 9.30, 2.30–4.30.

Open to Seniors who are taking **Psychology 2**.

**†11—Genetic Psychology**, advanced course. Professor THORNDIKE and Miss NORSWORTHY. Two points.

M. and W. at 1.30.

Open to Seniors with the consent of the Dean given only on written permission from the instructor.

#### Anthropology

**\*1—Anthropology**, general introductory course. Lectures, essays, and discussions. Professor BOAS. Two points.

Tu. and Th. at 1.30.

Open to Seniors.

**\*7—Ethnography**. Lectures, essays, and discussions. Professor FARRAND. Two points.

Tu. and Th. at 12.30.

Open to specially qualified Seniors.

In this course the ethnography of primitive tribes is described in geographical order. The complete course covers two years. In 1902-3 Professor FARRAND will lecture on the ethnography of the Pacific Islands and of Africa; in 1903-4 Professor BOAS will lecture on the ethnography of America. The collection in the American Museum of Natural History will be utilized for illustrating this course.

\* 2—**The Statistical Study of Variation**, introductory course. Lectures, essays, and discussions. Professor BOAS. Two points.

Tu. and Th. at 9.30.

Open to Seniors with the written permission of the instructor.

This course is intended as an introduction to the study of variation for students of anthropology, biology, and psychology.

### **Education**

The courses in the history and philosophy of education, educational administration, psychology and child-study given below (*i.e.*, Nos. 10, 12, 50, 54 and 57) are open to duly qualified students without the special permission required for those more technical courses which deal with the practice of teaching in the secondary and elementary schools, given on pp. 79–81.

For information regarding the requirements for the several Teachers College Diplomas and for full specifications regarding each course the student is referred to the Announcement of Teachers College for 1902–03.

**Psychology A** and **Education 10** are prerequisite to all courses in education. **Education 50** must be taken parallel with other courses in the Senior year.

Barnard College seniors who have already taken **Education 1** as candidates for the Secondary Diploma will be required to take **Education 57** in place of **Education 2** and **8**.

### *History and Philosophy of Education*

† 50—**History and Principles of Education**. Lectures, required readings, reports and discussions. Three points. Professor MONROE and assistant.

Tu. and Th. at 3.30, and a third hour in sections.

- (b) F. at 9.30 for candidates for a Bachelor's diploma in secondary teaching;
- (c) S. at 9.30 for candidates for a Bachelor's diploma in elementary and kindergarten teaching.
- (e) S. at 11.30 for students who obtain the consent of the instructor.

† 52—**Modern Educational Theory**. Lectures, reading, and discussion. Two points. DR. MACVANNEL.

Tu. and Th. at 2.30.

*Educational Administration*

**†54—School Administration.** Lectures, essays, and discussions. Two points. Professor DUTTON.

M. and W. at 3.30.

*Educational Psychology*

**†10—Educational Psychology.** Lectures, practical exercises, and recitations. One and one-half points. Professor THORNDIKE and assistants.

*Second half-year sections*

(a) M., W., and F. at 9.30, open to candidates for the Bachelor's diploma in kindergarten, elementary, and secondary teaching.

(c) M., W., and F. at 3.30, open to collegiate students and others by permission of the instructor.

*First half-year section*

(d) M., W., and F. at 2.30, intended especially for Barnard College students.

**†12—Child Study.** Observation, experiments, private reading, and conferences. Two points. Professor THORNDIKE and Miss NORSWORTHY.

Tu. and Th. at 10.30.

*Elementary Education*

**†15—General Method and Practice Teaching.** Weekly conferences following observation of lessons and practical work in the schoolroom. Three points. Professor McMURRY and instructors.

(a) Class work, 2 points. Tu. at 10.30 and S., 10.30-12.30.

(b) Practical work, 1 or more points. Hours and credit must be arranged with the instructor before registration.

**†16—Primary and Kindergarten Teaching.** Lectures, observation, and practical work. Two points. Miss O'GRADY.

Tu. and Th. at 11.30.

*Secondary Education*

**†57—Secondary Education.** Lectures, discussions and reports. Two points. Professor SACHS.

Tu. and Th. at 4.30.

*Biology*

**†20—Theory and Practice of Teaching Nature Study in Elementary Schools.** Lectures, discussions, and practical work. Two points. Miss CARSS.

- (a) Class work, 1 point. M. at 2.30.
- (b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **Biology 10**, or its equivalent.

**†60—Theory and Practice of Teaching Biology in the Secondary School.** Lectures, discussions, and practical work. Three points. Professor LLOYD and Dr. BIGELOW.

- (a) Class work, 2 points. M. and W. at 11.30.
- (b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college biology, of which 3 points may be taken concurrently.

*English*

**†26—Theory and Practice of Teaching English in Elementary Schools.** Lectures, recitations, and private reading. Two points. Professor BAKER.

- (a) Class work, 1 point. F. at 2.30.
- (b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **English A, 2** or its equivalent.

**†66—Theory and Practice of Teaching English in Secondary Schools.** Lectures, reading, written work, observation, and practice-teaching. Three points. Professor BAKER.

- (a) Class work, 2 points. M. and W. at 9.30.
- (b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college English.

*Geography*

**†32—Theory and Practice of Teaching Geography in Elementary Schools.** Lectures, discussions, and practical work. Two points. Redway's *New Basis of Geography*, Tarr and McMurry's *North America*. Professor DODGE and Miss C. B. KIRCHWEY.

(a) Class work, 1 point. W. at 2.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **Geography 1 or 2**, or their equivalent.

**†72—Theory and Practice of Teaching Geography in Secondary Schools.** Lectures, discussions, and practical work. Three points. Davis's *Physical Geography* and *Report of Committee on College Entrance Requirements of National Educational Association*. Professor DODGE and Miss C. B. KIRCHWEY.

(a) Class work, 2 points. M. and W. at 11.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: 9 points in geography and geology, including **Geography 10**, and at least 2 points in geology.

#### *Greek*

**†76—Theory and Practice of Teaching Greek in Secondary Schools.** Lectures, reports, and practical work. Three points. Professor LODGE.

(a) Class work, 2 points. Tu., Th. (and F.) at 1.30.

(b) Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college Greek.

#### *History*

**†38—Theory and Practice of Teaching History in Elementary Schools.** Lectures, conferences, reference work, and practical work. Two points. Professor CASTLE.

Class work, 1 point. Th. at 2.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **History A and 2**.

**†78—Theory and Practice of Teaching History in Secondary Schools.** Lectures, discussions, and practical work. Three points. Professor CASTLE.

Class work, 2 points. Tu. and Th. at 9.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points of college history.

*Latin*

† 82—**Theory and Practice of Teaching Latin in Secondary Schools.** Lectures, reports, and practical work. Three points. Professor LODGE.

M., W. (and F.) at 1.30.

Class work, 2 points.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college Latin.

*Mathematics*

† 46—**Theory and Practice of Teaching Mathematics in Elementary Schools.** Lectures, discussions, and practical work. Two points. Professor SMITH.

Class work, 1 point. Tu. at 2.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: **Mathematics A**, or its equivalent.

† 86—**Theory and Practice of Teaching Mathematics in Secondary Schools.** Lectures, discussions, and practical work. Three points. Professor SMITH.

Class work, 2 points. Tu. and Th. at 11.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Prerequisite: at least 9 points in college mathematics.

*Physical Science*

† 92—**Theory and Practice of Teaching Physical Science in Secondary Schools.** First half-year, chemistry; second half-year, physics. Laboratory exercises, observation, and practical work. Three points. Professor WOODHULL.

Class work, 2 points. F., 1.30-3.30.

Practical work, 1 point. Hours must be arranged with the instructor before registration.

Laboratory fee, \$2.

Prerequisite: at least 9 hours in college physics and chemistry.

**Physics**

**1a—General Course in Elementary Physics.** Dr. DAY and Miss COLLES. Two lectures and two hours of laboratory work during the first half-year, counting as one and a half points.

Tu. and Th. at 12.30.

Open to students commencing the study of physics.

**1—Mechanics, Sound and Heat, first half-year. Electricity and Light, second half-year.** Dr. DAY and Miss COLLES. Two lectures and two hours of laboratory work, counting as three points.

Tu. and Th. at 11.30.

Open to all students that have had Course 1a, or entrance physics or its equivalent.

**2—Electricity, first half-year. Sound, second half-year.** Dr. DAY and Miss COLLES. Two lectures, two or six hours of laboratory work, counting as three or five points.

Tu. and Th. at 2.30.

Open to students that have taken Physics 1.

**4—Light, first half-year. Heat, second half-year.** Professor HALLOCK and Dr. DAY. Three lectures, two or four hours of laboratory work, counting as four or five points.

M., W., and F. at 9.30.

Open to students that have taken Course 1.

Laboratory courses may be arranged for advanced students.

A course in Methods of Teaching Physics in Elementary and Secondary Schools is also offered to students. See Education 92.

Courses 1, 2, and 4 may be dropped or commenced at the mid-year, but to do so is not advisable.

The Physical Laboratory at Barnard College is equipped with apparatus necessary for carrying on the laboratory work in connection with the lecture courses, and among the pieces of apparatus owned may be mentioned the following :—galvanometers, resistance boxes, a potentiometer, Wheatstone wire bridges, Weston voltmeter and ammeter, Clark standard cell, air thermometer, Geneva Society spectrometer, optical bench, Norremberg's polarization apparatus, Rowland plane grating, Rowland 6-foot concave grating spectroscope, compound microscopes, Geneva Society cathetometer, dividing engine, goniometer, etc. There is a shop belonging to the laboratory containing a foot lathe and tools for working in metal and wood.

**Physiology** See *Zoölogy*

**Romance Languages and Literatures**

*French*

**A—Elementary Course.** Professor WOODWARD. Three points.

M., W., and F. at 10.30.

Prescribed for Freshmen who did not present French at entrance.

**1—Grammar, Reading, Composition.** Professor WOODWARD. Three points.

M., W., and F. at 11.30.

Open to students that have passed the French examination for entrance, and that are not qualified for a higher course.

**2—General Introduction to the Study of French Literature. Composition.** Professor WOODWARD. Three or four points.

M., W., and F. at 3.30 (and for students entering on intermediate French, also one additional hour to be arranged later).

Open to students that have taken Course 1 or its equivalent, and to students that have passed the entrance examination in intermediate or advanced French.

**3—Historical French.** Practice in reading, writing, and speaking French. Mr. BARGY. Three points.

M., W., and F. at 11.30.

Open to students that have taken Course 2 or its equivalent.

**4—History of French Literature in the Seventeenth Century.** Professor WOODWARD. Three points.

M., W., and F. at 2.30.

Open to students that have taken Course 2 with credit, or Course 3.

**5a—History of French Literature in the Eighteenth Century.** Mr. BARGY. Three points.

M., W., and F. at 1.30.

Open to students that have taken Course 4.

**7—History of the Literary Movement in France during the First Half of the Nineteenth Century.** Mr. BARGY. Two points.

M. and W. at 2.30.

Open to Seniors who have taken Course 4 or its equivalent.

Courses 7 and 8 are given in alternate years.

[8—History of the Literary Movement in France during the Second Half of the Nineteenth Century. Mr. BARGY. Two points.

Open to Seniors who have taken Course 4 or its equivalent.

*Not given in 1902-3.]*

\* 11—History of Literary Criticism in France, especially Sainte-Beuve and Brunetière. Mr. BARGY. Two points.

M. and W. at 3.30.

Open to Seniors who have taken Course 4 or its equivalent.

Courses 11 and 15 are given in alternate years.

[\* 15—Writers of the Sixteenth Century, especially Montaigne. Mr. BARGY. Two points.

Open to Seniors who have taken Course 4 or its equivalent.

*Not given in 1902-3.]*

\* 13—Old French: Reading of selected extracts. Dr. NITZE.

Two points, first half-year.

Tu. and Th. at 2.30.

Open to Seniors who have taken Course 4 or its equivalent.

\* 14—Old French: Reading of complete texts. Dr. NITZE.

Two points, second half-year.

M. and W. at 10.30.

Open to Seniors who have taken Course 4 or its equivalent.

#### *Italian*

1—Elementary Course. Grammar, reading, and composition.

Professor SPERANZA. Three points.

M., W., and F. at 11.30.

Open to all students, not Seniors, who have satisfied the requirements in French and German. It may not be taken at the same time with Spanish 1.

2—Italian Literature of the Sixteenth Century; Ariosto, Tasso, Macchiavelli. Composition. Professor SPERANZA.

Three points.

M., W., and F. at 1.30.

Open to students that have taken Course 1 or its equivalent.

Courses 2, 3, and 6 are given in successive years.

[3—Italian Literature of the Fourteenth and Fifteenth Centuries, exclusive of the *Divina Commedia*: Dante's *Vita Nuova*, Petrarca, Boccaccio, Bojardo, etc. Composition. Professor SPERANZA. Three points.

Open to students that have taken Course 1 or its equivalent.

*Not given in 1902-3.]*

[**6—Modern Italian Literature.** Professor SPERANZA. Three points.

Open to students that have taken Course 1 or its equivalent.

*Not given in 1902-3.]*

**\*4—Critical Study of Dante's Divina Commedia.** Professor SPERANZA. Two points.

Tu. and Th. at 2.30.

Open to Seniors who have taken Course 2, or Course 3, or Course 6.

#### *Spanish*

[**1—Elementary Course.** Grammar, reading, and composition. Mr. LOISEAUX. Three points.

Open to all students, not Seniors, who have satisfied the requirements in French and German. It may not be taken at the same time with **Italian 1.**

*Not given in 1902-3.]*

**2a—Advanced Course.** Grammar, reading, and composition. Mr. LOISEAUX. Three points.

M., W., and F. at 11.30.

Open to students who have taken Course 1 or its equivalent.

Courses 1 and 2a are given in alternate years.

#### *Romance Philology*

**\*1—Introduction to Romance Philology.** Professor TODD. Two points.

M. and W. at 3.30.

#### *Zoölogy*

**2—Elementary Biology.** Zoölogy, Histology, and Embryology. Professor CRAMPTON and Mr. KELLICOTT. Two lectures and four hours of laboratory work in Biology and Zoölogy, counting as four points; or with one lecture and two hours of laboratory work additional (Histology first term, Embryology second term),

counting as six points; or with only the additional hours in Embryology the second term, counting as five points for the year.

Tu. and Th. at 1.30.

Open to Juniors and Seniors; especially designed for students that have taken **Physics 1**, **Chemistry 1**, and **Botany 51**.

This course is designed for students of psychology, physiology, geology, and medicine, as well as for those who intend to pursue zoölogy and botany.

**3—General Zoölogy.** Advanced Course. Professor CRAMPTON and Mr. KELLICOTT. Three lectures, six hours of laboratory work, counting as six points.

Hours to be arranged.

Open to students that have taken **Zoölogy 2** or its equivalent.

This course is designed for students intending to enter medicine, also for students of zoölogy and botany, as graduate subjects.

### **Physiology**

**I—Physiology.** Professor CRAMPTON, Mr. KELLICOTT, Mr.

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General principles of animal physiology and histology. One or two lectures, and two or four hours of demonstrations and laboratory work, counting as two or four points.

Tu. and Th. at 12.30.

Open to Juniors and Seniors.

This course is designed for students of zoölogy, botany, and psychology, as well as for students intending to study medicine, and may be taken together with, or subsequent to, **Zoölogy 2**.

SCHEME OF ATTENDANCE FOR UNDERGRADUATES, 1902-1903.  
MONDAY WEDNESDAY AND FRIDAY

## TUESDAY, THURSDAY, AND SATURDAY.

9.30	10.30	11.30	12.30	1.30	2.30	3.30	4.30
*Anthropology 2 [Tu. and Th.]	Botany 52 [Tu. and Th.]	*Astronomy 1 [Tu. and Th.]	*Anthropology 7 [Tu. and Th.]	History 2 [Tu. and Th.]	History 31 [Tu. and Th.]		
Economics A, I Economics A, II-III [S. only.]	English A English 19 [Tu. and Th.]	Economics A, II [Tu. and Th.]	Greek 7 [Th. only.]	History 11 [Tu. and Th.]	History 11 [Tu. and Th.]		
English 1-2b [Tu. and Th.]	*Geography 1 [Tu. and Th.]	Economics II-12 [Tu. and Th.]	Latin 22 [Tu. only.]	Economics 6-3 [Tu. and Th.]	*Philosophy 13 [Tu. and Th.]		
*Geography 1 [Tu. and Th.]	German 4 [Tu. and Th.]	English 10 [Tu. and Th.]	*Philosophy 8 [Tu. and Th.]	English B [Tu. and Th.]	*Gothic 17 [Tu. and Th.]		
German 4 [Tu. and Th.]	Greek 4 [Tu. and Th.]	*English 47 [Tu. and Th.]	Physics 1a [Tu. and Th.]	*Geography 2 [Tu. and Th.]	History 11 [Tu. and Th.]		
Latin 35 [Tu. and Th.]	Latin 7 [Tu. and Th.]	German 8 [Tu. and Th.]	Physiology I [Tu. and Th.]	German 8 [Tu. and Th.]	History 16 [Tu. and Th.]		
*Mathematics 8 [Tu. and Th.]	Latin 2 [Tu. and Th.]	*German II [Tu. and Th.]	*Music 7-12 [Tu. and Th.]	*Italian 4 [Tu. and Th.]	*Italian 4 [Tu. and Th.]		
*Music 4 [Tu. and Th.]	Physics 1 [Tu. and Th.]	Physics 1 [Tu. and Th.]	Zoölogy 2 [Tu. and Th.]	*Low German 16 [Tu. and Th.]	*Music 10 [Tu. only.]		
Latin B [Tu. and Th.]	*Tu. 10.30-12.30]	*Philosophy II [Tu. and Th.]	*Music 2 [Tu. and Th.]	*Music 10 [Tu. and Th.]	Physics 2 [Tu. and Th.]		
Mathematics A, IV [Tu. and Th.]	*Psychology 2 [Tu. and Th.]	*Psychology 2 [Tu. and Th.]					
*Psychology 3 [Tu. and Th.]	Psychology 10 [Tu. and Th.]						

Courses marked with an asterisk \* are given at Columbia College, those marked with a dagger † are given at the Teachers College.

## ACADEMIC CALENDAR

- 1902—Oct. 6—Monday. First half-year, 14th year, begins  
Nov. 4—Tuesday. Election Day, holiday.  
Nov. 27—Thursday. Thanksgiving Day, holiday.  
Nov. 28—Friday. Holiday.  
Nov. 29—Saturday. Holiday.  
Dec. 15—Monday. Last day for notifying the Dean of  
the choice of subjects for graduation theses.  
Dec. 22—Monday  
to  
1903—Jan. 3—Saturday, inclusive. Christmas holidays.  
Jan. 5—Monday. Exercises of the College resumed.  
Jan. 26—Monday. Mid-year examinations begin.  
Feb. 7—Saturday. First half-year ends.  
Feb. 9—Monday. Second half-year begins.  
Feb. 12—Thursday. Lincoln's Birthday, holiday.  
Feb. 22—Sunday. Washington's Birthday.  
Feb. 23—Monday. Holiday.  
April 1—Wednesday. Last day for filing applications  
for scholarships.  
April 2—Thursday. Last day for handing in gradu-  
ation theses.  
April 10—Good-Friday. Holiday.  
May 18—Monday. Final examinations begin.  
May 20—Wednesday. Last day for filing lists of elec-  
tive courses.  
May 30—Saturday. Memorial Day, holiday.  
June 5—Friday. Class Day.  
June 7—Sunday. Baccalaureate Sermon.  
June 8—Monday. Last day for filing teachers' cer-  
tificates for June entrance examinations.  
June 10—Wednesday. Commencement Day.  
June 15—Monday. Entrance examinations begin.

## REGISTER OF STUDENTS

### SENIOR CLASS

Allen, Elizabeth.....	40 Court St., Brooklyn.
Aller, Georgetta Platt.....	183 So. Oxford St., Brooklyn.
Alsberg, Elsa.....	40 West 94th Street.
Armstrong, Katharine.....	Louisville, Ky.
Belcher, Frances Elinor.....	Mt. Vernon, N. Y.
Bergen, Elsa Gubner .....	156 Garfield Pl., Brooklyn.
Berkeley, Fanny Campbell.....	Morgantown, W. Va.
Boote, Grace Edith.....	Yonkers, N. Y.
Brown, Jessie Louise.....	528 West 123d Street.
Budd, Mary Hunt.....	Chester, N. J.
Burton, Harriet Wright.....	Woodside, N. Y.
Campbell, Elsa Patterson.....	Kansas City, Mo.
Carl, Lydia Adèle.....	Whitestone, N. Y.
Chapin, Edna Cara.....	Mt. Vernon, N. Y.
Clark, Margaret Elizabeth.....	Amenia Union, N. Y.
Coddington, Elizabeth Cadmus.....	Passaic, N. J.
Cook, Clara Coburn.....	Yonkers, N. Y.
De Hart, Grace Lucille.....	Jersey City, N. J.
Donald, Rebecca Staunton.....	170 West 121st Street.
Durant, Edith.....	603 West End Avenue.
Dutcher, Eva Olive.....	496 Third St., Brooklyn.
Earle, Ruth.....	602 West 125th Street.
Elliman, Margaret Grote.....	24 West 61st Street.
Fairchild, Helen Adelaide.....	New Britain, Conn.
Finnigan, Elizabeth.....	151 West 81st Street.
Gignoux, Elise Messenger.....	Great Neck, N. Y.
Hall, Mary Dederick .....	Mt. Vernon, N. Y.
Hunt, Eleanore Harrison.....	Orange, N. J.
Ingalls, Edith May.....	New Rochelle, N. Y.
Kimball, Viola Louise.....	Greenwich, Conn.
La Monte, Sue Life.....	Owego, N. Y.
McCook, Janet Alexander.....	10 West 54th Street.
McKenney, Annie Pickrell.....	Petersburg, Va.
Molwitz, Ernestine Julia.....	2707 Eighth Avenue.
Moore, Martha Wickham.....	Passaic, N. J.
Naumburg, Alice.....	304 West 71st Street.
Neiswender, Ada Blanche Clouse .....	923 Marcy Ave., Brooklyn.
Newman, Ethel Leone .....	Riverside, Conn.

Peters, Grace Malvina.....	Tottenville, N. Y.
Phelps, Eleanor.....	412 West End Avenue.
Rosenstein, Alma.....	49 West 96th Street.
Seibert, Jeannette Rowland.....	640 Putnam Ave., Brooklyn.
Seward, Annie Leddell.....	East Orange, N. J.
Shaen, Mary Carolyn.....	Yonkers, N. Y.
Spencer, Carita.....	27 William Street.
Totten, Elsie Lloyd.....	15 West 73d Street.
Trimble, Louise Matilda.....	Farmerville, La.
Van Cott, Eleanor Elizabeth.....	352 West 117th Street.
Waugh, Alice Marion.....	388 Clinton St., Brooklyn.
Wedemeyer, Marie Henrietta Detlef.....	Boulder, Colo.
Winterburn, Una Adele.....	Edgewater, N. J.

## JUNIOR CLASS

Addoms, Jessie Alice.....	1088 Prospect Pl., Brooklyn.
Alsop, Gulielma Fell .....	96 Remsen St., Brooklyn.
Ball, Marion Elizabeth Pruyn .....	606 West 113th Street.
Bamberger, Alice Clara Judith.....	152 West 73d Street.
Cahn, Anita Gella.....	16 West 131st Street.
Cheesman, Florence Palmer .....	171 West 95th Street.
Clark, Gertrude Helen.....	258 West 78th Street.
Cohen, Helen Louise.....	9 West 91st Street.
Colt, Mary Elizabeth Scovell.....	Buffalo, N. Y.
Fitch, Ellice Heaton.....	273 West 84th Street.
Groff, Mary.....	Jersey City, N. J.
Gruening, Clara Emily.....	109 East 23d Street.
Harrison, Mary Frederica.....	522 Lafayette Ave., Brooklyn.
Herzfeld, Elsa Goldina .....	147 West 86th Street.
Holt, Sarah Adaline.....	Waverley, Mass.
Hope, Ida May .....	130 West 123d Street.
Horn, Elizabeth.....	Belvidere, N. J.
Howard, Clare Maclellen.....	541 West 124th Street.
Howe, Ruth Bouton.....	Geneseo, N. Y.
Johnson, May Amerman.....	356 West 145th Street.
Jones, Edna Blanche.....	43 Morton Street.
* Kaufmann, Jessie .....	58 East 83d Street.
King, Helen Louise.....	360 West 117th Street.
Kohn, Lucile .....	10 East 60th Street.
Kroeber, Elsbeth.....	849 West End Avenue.
Latham, Marion Elizabeth.....	417 West 148th Street.
Lockwood, Hilda LeGrande.....	441 Park Avenue.
Merrill, May.....	Minneapolis, Minn.
Miller, Jean Wallace .....	314 West 104th Street.
Moen, Mary Warren.....	308 West 77th Street.

\* Died March 17, 1902.

Newton, Ethel Blanchard .....	Montclair, N. J.
Pollak, Wilma Vera.....	112 Riverside Drive.
Pool, Ethel Manter .....	267 West 79th Street.
Poole, Katherine Ellen.....	Faribault, Minn.
Rauh, Florence Ethel.....	54 East 73d Street.
Robinson, Amelia Maude.....	Sayville, N. Y.
Rogers, Helen Miles .....	Fond du Lac, Wis.
Seguine, Laura Randolph .....	Rosebank, N. Y.
Sherman, Lucy Fidelia.....	Peekskill, N. Y.
Skinner, Madeleine Dayrell.....	329 Adelphi St., Brooklyn.
Stern, Irma Regina.....	993 Fifth Avenue.
Thompson, Bessie Ilsley.....	21 First Pl., Brooklyn.
Toscano, Louise Josephine Colvin.....	Astoria, N. Y.
Van Cise, Laura Knowles.....	Summit, N. J.
Wallach, Adele Nettie.....	403 Manhattan Avenue.
Walters, Elizabeth Roe.....	532 West 159th Street.
Ware, Anna Goodwin .....	1285 Madison Avenue.
Wilcox, Ethel Dodge.....	Yonkers, N. Y.

## SOPHOMORE CLASS

Adams, Jessie Blanche.....	416 West 118th Street.
Adey, Mildred Hunt.....	445 Lenox Avenue.
Andrews, Andrela Lilian.....	149 East 63d Street.
Appell, Edith May.....	Mt. Vernon, N. Y.
Applegate, Clara Marguerite.....	Newburg, N. Y.
Arnaud, Lucy Giulia.....	672 Tenth St., Brooklyn.
Bacon, Marjorie Kate.....	1036 Bergen St., Brooklyn.
Beifeld, Minnie Margaret.....	302 West 138th Street.
Boulger, Minnie Randolph.....	53 St. Nicholas Avenue.
Bushong, Elsie Grace.....	Reading, Pa.
Butts, Edith.....	Hoboken, N. J.
Cahen, Elfie Julia.....	353 Central Park West.
Claffy, Margaret Loretta Charles.....	27 Tompkins Pl., Brooklyn.
Compton, Mabel Grace.....	163 Macon St., Brooklyn.
Curtis, Sarah Theodora.....	421 West 117th Street.
Denton, Mabel.....	Paterson, N. J.
Doty, Katharine Swift.....	553 West 141st Street.
Durant, Agnes Lacy.....	603 West End Avenue.
Egleston, Jean Dunbar.....	Elizabeth, N. J.
Einstein, Milly Judith.....	44 West 53d Street.
Elting, Helen Stickney.....	Yonkers, N. Y.
Embry, Lucy Bates.....	Englewood, N. J.
Enright, Emma Mulford.....	Freehold, N. J.
Erskine, Helen.....	306 West 93d Street.
Fischer, Helena Marshall.....	129 West 70th Street.
Forrest, Natalie Sternberg.....	828 St. Nicholas Avenue.

Fountain, Charlotte Boyd .....	Jersey City, N. J.
Fry, Edna Louise.....	Bath Beach, N. Y.
Gallert, Doris Paula.....	48 West 119th Street.
Glenn, Helen Mildred.....	231 West 96th Street.
Granger, Edith Adell.....	Mt. Vernon, N. Y.
Gray, Mabelle Retta.....	269 Union Street, Brooklyn.
Haas, Edith Joan.....	7 East 69th Street.
Hawes, Jane Jewett.....	New Rochelle, N. Y.
Hill, Harriet Newell.....	183 West 73d Street.
Hirsch, Selma Helen.....	1140 Madison Avenue.
Hirshbach, Helen Frederica.....	154 West 75th Street.
Hoyt, Jessie Fenton .....	17 East 95th Street.
Hubbard, Florence Eddy.....	179 West 76th Street.
Hughan, Ethel Marjorie.....	663 Quincy St., Brooklyn.
Hunt, Martha Marguerita.....	Jersey City, N. J.
Leers, Hilma.....	Paterson, N. J.
Levy, Grace.....	4 West 93d Street.
Lewis, Ida Ethel.....	Jersey City, N. J.
Lexow, Caroline .....	Nyack, N. Y.
Lichten, Dora Elsie .....	1211 Madison Avenue.
Loomis, Jean Herring .....	606 West 115th Street.
Lyon, Romola .....	Englewood, N. J.
McCormick, Rose Marie.....	Perth Amboy, N. J.
McLean, Elizabeth.....	Jersey City, N. J.
Metcalfe, Lizzette May.....	611 Bedford Ave., Brooklyn.
Miller, Lena Adele.....	White Plains, N. Y.
Miller, Mildred Elsegood.....	64 Pennsylvania Ave., Brooklyn.
Mills, Elizabeth Taylor.....	442 First St., Brooklyn.
Morgan, Charlotte Elizabeth.....	1173 Bushwick Ave., Brooklyn.
Nevins, Dora Russell .....	682 President St., Brooklyn.
Nones, Sadie Floy.....	159 West 78th Street.
Nutt, Rachel Evans .....	Cliffside, N. J.
Parker, May Appleton.....	797 Madison Avenue.
Phillips, Rossie Clare.....	Sioux Falls, S. D.
Popper, Hilda Lotta.....	260 West 93d Street.
Shainwald, May Seville .....	661 Fifth Avenue.
Stern, Ruth Marjorie.....	29 West 87th Street.
Stobo, Jeannette Russell.....	Hotel St. Andrews.
Stone, Margaret Holmes.....	1048 Fifth Avenue.
Swan, Bessie Louise.....	502 West 149th Street.
Thomas, Martha Ellen .....	Yonkers, N. Y.
Van Deursen, Helen Tewksbury .....	Tarrytown, N. Y.
Van Slyke, Alida Margaret .....	New Baltimore, N. Y.
Waring, Anna Tallman.....	Piermont, N. Y.
Werts, Harriet Estelle .....	Jersey City, N. J.
Wick, Jeannette.....	Elmhurst, N. Y.

## FRESHMAN CLASS

Allen, Caroline Gratia.....	67 West 73d Street.
Anderson, Helen Beatrice.....	Astoria, N. Y.
Barker, Sadie Rose.....	Irvington, N. Y.
Bassett, Elizabeth Waddington.....	26 West 129th Street.
Beeckman, Florence Louise.....	141 West 104th Street.
Bell, Florence Emily.....	Long Island City, N. Y.
Bennett, Georgina Grace.....	Hackensack, N. J.
Bernays, Judith.....	121 West 119th Street.
Biggin, Florence Irene.....	Middletown, N. Y.
Boorman, Elizabeth Stanford Sayre .....	Fort Washington, N. Y.
Boss, Anna Marie.....	161 East 82d Street.
Brown, Ann Eliza.....	Port Richmond, N. Y.
Buckingham, Elizabeth.....	632 West 148th Street.
Byrne, Margaret Cecilia.....	656 Monroe St., Brooklyn.
Calhoun, Emma Shaw.....	201 West 100th Street.
Carpenter, Lulu Jane.....	Port Chester, N. Y.
Cathcart, Gertrude Louise.....	Plainfield, N. J.
Cohen, Helen Nessa.....	177 East 93d Street.
Cooley, Helen Wilking.....	249 West 14th Street.
Day, Elizabeth.....	1146 Tinton Avenue.
Dietz, Edith Augusta.....	136 East 43d Street.
Donnelly, Marguerite.....	412 West 149th Street.
Dorrian, Cecil Inslee.....	2340 Seventh Avenue.
Draper, Alice Olin.....	18 West 8th Street.
Ehrich, Elsie.....	54 West 75th Street.
Elleau, Augustine Louise.....	Newark, N. J.
Farmer, Mildred Blanche.....	New Rochelle, N. Y.
Farrelly, Grace Marie.....	224 West 137th Street.
Fettretch, Edith Berrell.....	803 Lexington Avenue.
Fisher, Annie Fuller.....	Mt. Vernon, N. Y.
Fletcher, Sallie Faulkner.....	138 Berkeley Pl., Brooklyn.
Forman, Anita Grace.....	2313 Seventh Avenue.
Franklin, Marion.....	17 East 129th Street.
Frothingham, Mary Katharine.....	60 West 68th Street.
Goldsmith, Evelyn Miriam.....	50 West 75th Street.
Goodyear, Katharine Francis.....	104 West 109th Street.
Gray, Mary Gould.....	246 Fourteenth St., Brooklyn.
Haan Helen Ilone.....	57 West 75th Street.
Handy, Edith Berkeley.....	New Brighton, N. Y.
Heidenheimer, Alyne Bendit.....	61 East 72d Street.
Hendricks, Ethel.....	18 East 80th Street.
Heyman, Blanche.....	134 West 131st Street.
Hill, Amelia Leavitt.....	335 West 84th Street.
Hochheimer, Helen Alice.....	1311 Madison Avenue.

Hoffman, Margie Ethel.....	356 Henry St., Brooklyn.
Hoyt, Sarah Fenton .....	17 East 95th Street.
Hunter, Ellen Read.....	84 West 120th Street.
Hutchinson, Emilie Josephine.....	287 Carroll St., Brooklyn.
Ives, Elizabeth Watson.....	533 West 148th Street.
Kaplan, Carrie.....	98 East Broadway.
Kennedy, Anna Josephine.....	7 Decatur St., Brooklyn.
Lee, Mary Day.....	Richmond, Va.
Levy, Edwina Leah.....	122 East 76th Street.
Lock, Mary.....	Plainfield, N. J.
Lyall, Pamela Warren.....	367 West 20th Street..
McKee, Elsa BuBois.....	557 West 124th Street.
Mahony, Adele Margaret.....	113 East 55th Street.
Meyer, Florence Alma.....	48 West 59th Street.
Mott, Isabelle.....	221 West 123d Street.
Munroe, Eleanora Louise.....	262 West 122d Street.
Murphy, May Agnes.....	65 West 93d Street.
Murray, Lily Sylvester.....	Montclair, N. J.
Nye, Florence Isabelle.....	2 Mt. Morris Park West.
Palliser, Helen Letitia.....	Dobbs Ferry, N. Y.
Parker, Laura Hillier.....	217 East 27th Street.
Peters, Louise Edgar.....	Englewood, N. J.
Pratt, Josephine Southworth.....	New Rochelle, N. Y.
Purdon, Frances Hope.....	606 West 114th Street.
Reeder, Ruth Angeline.....	73d St. and Riverside Drive.
Reeder, Irene May.....	73d St. and Riverside Drive.
Reiley, Anna Campbell.....	2682 Broadway.
Reitlinger, Blanche Hortense .....	66 West 68th Street.
Rheinstein, Alice Marion.....	55 West 89th Street.
Rosenberg, Alma Emilie.....	14 West 88th Street.
Salik, Augusta.....	214 Rivington Street.
Schlussel, Ethel Rose .....	37 West 74th Street.
Schrenkeisen, Hetty.....	17 East 75th Street.
Schultz, Nina.....	127 West 85th Street.
Scott, Bessie Trimble.....	Passaic, N. J.
Seward, Bertha Woodward.....	Goshen, N. Y.
Shanley, Mildred Ethel.....	Campville, Conn.
Skinner, Nora Taylor.....	Dobbs Ferry, N. Y.
Smith, Alice Van Woert.....	183 West 135th Street.
Solomon, Charlotte Louise.....	Syracuse, N. Y.
Sparkman, Lydia Holt .....	Paterson, N. J.
Spooner, Marion Seymour.....	335 West 145th Street.
Sturcke, Emma Hazelton.....	Mamaroneck, N. Y.
Talbot, Abigail Adams .....	Mamaroneck, N. Y.
Tattershall, Anna Sarah.....	White Haven, Pa.
Thorp, Anna Frances Muriel.....	Paterson, N. J.

Trier, Betty.....	703 Madison St., Brooklyn.
Van Buren, Irene .....	Shortsville, N. Y.
Van Ingen, Edith Gifford.....	135 Henry St., Brooklyn.
Wainwright, Marjorie Urry.....	202 West 74th Street.
Watson, Ethel Agnes .....	Hackensack, N. J.
Welle, Edith.....	Paterson, N. J.
Wheeler, Helène Louise.....	Oswego, N. Y.
Wilcox, Harriet Leslie .....	Yonkers, N. Y.

## SPECIAL STUDENTS

Barrett, Mary Franklin.....	Bloomfield, N. J.
Bennett, Mary Elizabeth .....	215 West 100th Street.
Brackett, Anna Speed .....	604 West 115th Street.
Caples, Edith Richards (Mrs. B. H. Caples).....	3136 Broadway.
Carpenter, Alice Caroline.....	Brookline, Mass.
Carpenter, Jane Brodie.....	Andover, Mass.
Carter, Marion Hamilton.....	New York, N. Y.
Corey, Alice Felicita .....	Elmira, N. Y.
Cross, Emily Redmond.....	6 Washington Square.
Daniels, Harriet McDoual .....	Detroit, Mich.
Dow, Bertha McLane.....	143 Convent Avenue.
Fisher, Mary Hedges.....	Mt. Vernon, N. Y.
Gano, Lina E.....	526 West 114th Street.
Harriman, Mary .....	1 East 55th Street.
Haydock, Amelia.....	407 West 123d Street.
Herts, Rhoda Leonora.....	Hotel Marie Antoinette.
Howe, Lucy .....	Indianapolis, Ind.
Kirchwey, Clara Barbara .....	605 West 113th Street.
Loveless, Mary E .....	2042 Fifth Avenue.
Neuman, Henrietta.....	70 East 81st Street.
Nitze, Anina Hilken (Mrs. W. A. Nitze).....	235 West 102d Street.
O'Grady, Caroline Geraldine .....	417 West 118th Street.
Poor, Edith Brandon.....	1 Lexington Avenue.
Rosenblatt, Bella .....	55 East 92d Street.
Smith, Anna V. O. (Mrs. H. J. Smith) .....	Pompton Lake, N. J.
Steinhardt, Edna.....	2 West 72d Street.
Tanzer, Helen Henrietta .....	294 West 92d Street.

## STUDENTS OF MUSIC

Bacchus, Josephine Stearns .....	239 Gates Ave., Brooklyn.
Barnes, Madeleine Winthrop.....	1 West 81st Street.
Beck, Emma.....	9 East 17th Street.
Benedict, Anna.....	86 Hancock St., Brooklyn.
Broder, Esther Mildred.....	250 Broome Street.
Chase, Mary Livingston .....	Scarsdale, N. Y.
Coons, Orrie Mae .....	346 Manhattan Avenue.

Corbin, Helen Margaret.....	New Harmony, Ind.
Costikyan, Arousiag.....	East Orange, N. J.
Crocker, Mary Sampson.....	44 Irving Place.
Cushing, Ethel Newton (Mrs. H. A. Cushing) .....	106 West 105th Street.
Davison, Mary Lucinda.....	Owego, N. Y.
Deyo, Ruth Lynda.....	Albany, N. Y.
Dyas, Louise.....	17 Livingston Place.
Ettlinger, Josephine.....	40 East 73d Street.
Gallagher, Angela.....	300 Manhattan Avenue.
George, Anna Angela.....	Fort Hamilton, N. Y.
Gottschalk, Clara Aimeé.....	178 West 81st Street.
Griffin, Anne Van Winkle (Mrs. A. V. W. Griffing) .....	163 East 56th Street.
Hilton, Ida Leigh.....	The Barnard, Central Park West.
Hughes, Carrie Elizabeth.....	Fort Wayne, Ind.
Knox, Elfleda Ethel (Mrs. E. E. Knox).....	3132 Broadway.
Kraus, Leah Carrie.....	89 West 119th Street.
Leo, Beatrice.....	142 West 87th Street.
Littig, Mary Langsdorff .....	61 West 70th Street.
MacMahon, Mary Gertrude.....	310 Madison Avenue.
Mahan, Helen Evans.....	160 West 86th Street.
May, Louise Cooper.....	Boston, Mass.
Mooney, Mary Agnes.....	75 Morton Street.
Moss, Olive .....	311 East 120th Street.
de Neergaard, Golla.....	Karlfalt, Sweden.
Rochester, Anna .....	Euglewood, N. J.
Ryshpan, Bertha .....	1206 Fifth Avenue.
Selfridge, Susan Maxwell.....	Washington, D. C.
Sloane, Marion Wallace .....	Newark, N. J.
Smidt, Grace Lee .....	128 East 34th Street.
Van Ingen, Helen.....	135 Henry St., Brooklyn.
Van Nest, Mary Vanderpool.....	Glenridge, N. J.
Walter, Rose.....	28 East 60th Street.
Weil, Helene Margarete.....	36 East 74th Street.
White, Esther.....	Summit, N. J.
White, Mary Cecilia .....	Yonkers, N. Y.
Whitehead, Julia Halsey.....	29 East 74th Street.

## STUDENTS FROM TEACHERS COLLEGE

Abrams, Effie Murray .....	Hartford, Conn.
Allis, Luella Virginia.....	Syracuse, N. Y.
Baker, Marion Towne.....	Providence, R. I.
Barnett, Oeland Lamar.....	Shelby, N. C.
Barney, Mabel Irene.....	Springfield, Mass.
Behr, Elsa.....	869 President St., Brooklyn.
Blake, Marion.....	Jersey City, N. J.
Bridgman, Anne Townsend .....	157 West 123d Street.

Broadhurst, Jean.....	Edgewater, N. J.
Burr, Mary Olive .....	Oakdale, N. Y.
Butler, Florence Louise.....	Orange, N. J.
Cazin, Adele.....	Hoboken, N. J.
Coan, Marion Sarah .....	Auburn, Me.
Cross, Margaret Elsie.....	New Orleans, La.
Curtin, Margaret H.....	Hoboken, N. J.
Dawson, Alice Belle.....	235 Hooper St., Brooklyn.
Ewing, Edith Claypole.....	209 West 87th Street.
Fountain, Abbie Emma.....	Camden, Me.
Fridenberg, Pauline.....	114 West 126th Street.
Frost, Helen Vincent.....	Mt. Vernon, N. Y.
Gallagher, Helen Davis.....	Highwood, N. J.
Gilliland, Alice Mabel.....	Ballston Spa, N. Y.
Henderson, Marion Livingston.....	414 West 118th Street.
Hess, Irene.....	152 Convent Avenue.
Keil, Caroline Elizabeth.....	402 East 79th Street.
Kennedy, Anna.....	Little Silver, N. J.
Lester, Caroline Foote.....	Seneca Falls, N. Y.
McIntyre, Margaret Allen .....	Chicago, Ill.
McKay, Margaret Elliot.....	Wilmington, Del.
McKeighan, Elinor Matilda.....	St. Louis, Mo.
MacLear, Anne Bush.....	Wilmington, Del.
Meigs, Katharine Hedges .....	Orange, N. J.
Miller, Susanne Rebecca Marian.....	Minneapolis, Minn.
Odencrantz, Tulla Caroline.....	Houston, Tex.
Percival, Mary.....	Auburn, Me.
Phelps, Edna Harriet.....	Princeton, Ill.
Reid, Florence Elizabeth.....	Jersey City, N. J.
Ruhl, Anna .....	499 Eleventh St., Brooklyn.
Schwabe, Ida.....	73 East 85th Street.
Seymour, Bina.....	Springfield, Mass.
Spurr, Mary Clark .....	Sheffield, Mass.
Steele, Minnie Louise.....	106 West 92d Street.
Tomlinson, Cora.....	Plainfield, N. J.
Turner, Jessica Knapp.....	Addison, N. Y.
Wettlin, Emma Louise.....	Newark, N. J.
Yost, Nancy Ellen.....	237 West 108th Street.
Yudelson, Sophie.....	158 East Broadway.

## STUDENTS FROM COLUMBIA UNIVERSITY

Berg, Clara de Lissa.....	52 West 83d Street.
Brackett, Mary Morrell.....	604 West 115th Street.
Bush, Eleanor Howard .....	Concord, Mass.
Byington, Margaret Frances ..	Montclair, N. J.
Chamberlain, Elizabeth.....	Chappaqua, N. Y.

Chandor, Valentine Laura.....	29 East 61st Street.
Coe, Edith Mary.....	42 West 52d Street.
Curtiss, Harriette Arms.....	Sodus, N. Y.
Daly, Elizabeth Teresa .....	Yonkers, N. Y.
Davis, Alice.....	1230 Amsterdam Avenue.
de Forest, Jean L.....	1161 Amsterdam Avenue.
Elias, Isabel.....	Franklin, N. C.
Fairchild, Edith Miriam.....	Berea, Ky.
Goldman, Bertha.....	132 East 70th Street.
Hanks, Lenda Tracy.....	560 West 113th Street.
Hill, Mary Anderson (Mrs.).....	501 West 50th Street.
Hodgetts, Abbie Sylvia.....	1041 Marcy Place.
Hollis, Ida Minerva .....	Hornellsville, N. Y.
Howard, Katharine Dobbins.....	Hazlehurst, Miss.
Isaacs, Isabel Estelle.....	110 East 73d Street.
Jacobs, Lillie Friedlander .....	2783 Broadway.
Johnson, Adele Remsen.....	168 Hancock St., Brooklyn.
Josephthal, Hilda Emily.....	30 East 62d Street.
Keller, Maud Ryland.....	Wellesley, Mass.
King, Edith Barcroft.....	205 West 107th Street.
Kingsbury, Susan Myra .....	San Francisco, Cal.
Klein, Adele Louise.....	Detroit, Mich.
Lewis, Elizabeth Dike.....	Morristown, N. J.
Loomis, Louise Ropes .....	606 West 115th Street.
Luther, Edith Mary.....	South Orange, N. J.
MacAlarney, Emma Lenore .....	67 St. Nicolas Avenue.
McLean, Margaret .....	McKinney, Texas.
Miller, Barnette.....	Columbia, S. C.
Newborg, Hilda.....	33 East 67th Street.
Norsworthy, Naomi.....	234 West 122d Street.
Osborne, Evelyn.....	321 West 106th Street.
Pfizer, Alice Margarete Henriette.....	295 Washington Ave., Brooklyn.
Putnam, Bertha Haven.....	335 West 86th Street.
Stepaneck, Beatrice.....	Canton, N. Y.
Stimson, Julia Catherine.....	159 West 86th Street.
Sumner, Mary Brown.....	1230 Amsterdam Avenue.
Titsworth, Susan Sayre.....	Milwaukee, Wis.
Voorhees, Florence Augusta .....	Highbridge, N. Y.
White, Amelia Elizabeth.....	18 West 69th Street.
Woodhull, Mary Caldwell.....	Craigville, N. Y.

## Recipients of the Degree of Bachelor of Arts in 1901

Mary Olive Barrick

Helen Agnes Kane

Alice Beer

Olive Catherine Kellogg

Edith Berry

Rose Lois Kraker

Lisa Delavan Bloodgood	Eda Flora Kunz
Bertha Brown	Agnes Crawford Leaycraft
Margaret Buffington	Amy Loveman
Eliza Rhee's Butler	Christina Louise McKim
Marie Elise Helen Cameron	Mary Rathbone Morrison
Elizabeth Merle Carhart	Florence Oppenheimer
Cerise Emily Agnes Carman	Bessie May Osborn
Helen Elizabeth Catlin	Meta Pollak
Isabella Mitchell Cooper	Jennie Florence Preston
Harriet Elizabeth Cutting	Rosina Julia Rennert
Pauline Hamilton Dederer	Elizabeth Carpenter Roberts
Mary Lavinia Eaton	Florence Lucas Sanville
Mabel Elting	Sarah Edwards Schuyler
Elizabeth Hamilton	Sissie Cecile Straus
Lenda Tracy Hanks	Jannetta Gordon Studdiford
Madalene Heroy	Marian Goodall Townsend
Clara Elizabeth Hudson	Marguerite Edith Upton
Isabel Estelle Isaacs	Alma Frank Wallach
Lillie Friedlander Jacobs	Marie Louise Wehncke
Adele Remsen Johnson	May Godfrey Wendell
Euphemia Johnson	Cordelia Wendt
Hilda Emily Josephthal	Catherine Elizabeth Whitney

### Recipients of Prizes and Honors in 1901

#### Kohn Mathematical Prize

Edith Berry

#### Herrman Botanical Prize

Marie Louise Wehncke

#### Departmental Honors

##### Sophomore Honors

*English*: Helen Louise Cohen

*Mathematics*: Marion Elizabeth Latham

##### Junior Honors

*Classics*: Ada Blanche Clouse Neiswender

*Mathematics*: Grace Malvina Peters

##### Final Honors

*Classics*: { Lisa Delavan Bloodgood  
Helen Elizabeth Catlin  
Bessie May Osborn

*Mathematics*: { Elizabeth Allen  
Edith Berry

**Holders of Competitive Scholarships, Class of 1905**

**Trustees' Competitive Scholar**

Isabelle Mott

**Brooklyn Scholars**

Sallie Faulkner Fletcher  
Emilie Josephine Hutchinson  
Anna Josephine Kennedy

**STATISTICS**

The following tabular statement indicates the growth of the College from its foundation:

	1889 to 1890	1890 to 1891	1891 to 1892	1892 to 1893	1893 to 1894	1894 to 1895	1895 to 1896	1896 to 1897	1897 to 1898	1898 to 1899	1899 to 1900	1900 to 1901	1901 to 1902
<b>UNDERGRADUATES :</b>													
Seniors . . . . .	. . . . .	. . . . .	. . . . .	8	7	9	18	21	22	24	40	52	51
Juniors . . . . .	. . . . .	. . . . .	7	7	9	18	21	22	23	24	40	39	48
Sophomores . . . . .	. . . . .	8	7	10	20	18	22	21	28	38	37	51	72
Freshmen (regular).	4	7	16	26	23	26	20	21	38	45	54	81	98
" (partly regular)	10	4	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
	14	19	30	51	59	71	81	85	111	131	171	223	269
<b>GRADUATE STUDENTS</b>	. . .	12	5	5	18	19	33	49	58	75	82	. . .	. . .
<b>SPECIAL STUDENTS</b>	. . .	. . .	. . .	. . .	. . .	. . .	. . .	45	38	28	21	41	27
Botany . . . . .	12	17	22	30	22	26	19	. . .	. . .	. . .	. . .	. . .	. . .
Chemistry . . . . .	10	5	5	2	7	3	3	. . .	. . .	. . .	. . .	. . .	. . .
Political Science . . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	11	. . .	. . .	. . .	. . .	. . .	. . .
<b>MUSIC STUDENTS</b>	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	24	20	37	41	37	43
<b>STUDENTS FROM TEACHERS COLLEGE</b>	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	7	8	18	54
<b>STUDENTS FROM COLUMBIA UNI- VERSITY</b>	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	29	45
	22	34	32	37	47	48	66	118	123	148	162	161	162
<b>TOTAL REGISTRATION</b>	36	53	62	88	106	119	147	203	234	279	333	384	431
<b>DEGREES CONFERRED</b>													
A.B. . . . .	. . . . .	. . . . .	. . . . .	8	7	8	18	22	22	21	39	50	. . .
A.M. . . . .	. . . . .	. . . . .	. . . . .	. . .	2	1	9	11	11	16	18	. . .	. . .
Ph.D. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	1	. . .	. . .	2	2	1	. . .	. . .

## Appendix

### Agreement Between the Trustees of Columbia College in the City of New York and Barnard College, New York City

THIS AGREEMENT, made the nineteenth of January, 1900,  
between

THE TRUSTEES OF COLUMBIA COLLEGE IN THE CITY OF NEW YORK, and BARNARD COLLEGE (hereinafter referred to respectively as "Columbia University" or "the University," and "Barnard College"),

#### WITNESSETH:

For the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is mutually covenanted and agreed:

FIRST. That the President of the University shall be, *ex officio*, President of Barnard College, and if not already a Trustee of Barnard College he shall be so elected at the earliest opportunity. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

SECOND. That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

THIRD. That Barnard College shall be represented in the University Council of Columbia University by its Dean who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College. Whenever Barnard College shall maintain ten or more professors in its Fac-

ulty it shall be entitled to a representative in the Council additional to the Dean.

FOURTH. That Barnard College shall provide for, support, and maintain such officers of instruction as may, from time to time, be agreed on, as follows, to wit:

They shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University—For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

Members of the Faculty of Barnard College may be either men or women.

In the month of January in each year, or at such other time as may be mutually agreed upon, the Dean of Barnard College, with the approval of the Trustees of Barnard College, and after conference with the heads of departments in such College, shall submit to the President of the University a statement, showing:

*First.* The estimated number of the students in each class at Barnard College for whom instruction is to be provided during the next academic year.

*Second.* The number and grade of officers of instruction, and amount of service desired in each subject.

Such statement shall be subject to the approval and revision of the President, upon all questions not reserved by this agreement, to the Trustees or Dean of Barnard College.

FIFTH. That, on and after July 1, 1904, all of the instruction for women leading to the degree of Bachelor of Arts shall be given separately in Barnard College, except that courses opened to seniors of Columbia College which are counted towards a Teachers College diploma shall continue to be open to seniors in Barnard College. Barnard College will assume as

rapidly as possible all of the instruction for women in the senior year, other than the courses leading towards a Teachers College diploma, without regard to the time limit contained in this section, and undertakes to maintain every professorship established at its instance, as hereinbefore provided, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

SIXTH. That the University will accept women who have taken their first degree on the same terms as men, as students of the University and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

The University will confer the degree of Bachelor of Arts upon the students of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degree of Bachelor of Arts conferred upon the graduates of Barnard College shall be maintained at all times as a degree of equal value with the degree of Bachelor of Arts conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

SEVENTH. That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it

shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

**EIGHTH.** That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof; it being distinctly understood and agreed that the University is and shall be under no implied obligation, responsibility, or liability, of any kind whatsoever, for the maintenance, support, direction, or management of Barnard College, or for the disbursements of the income thereof, except as stated in Section 4 of this Agreement; and that all and every such obligation or liability shall be strictly limited to the duties and obligations expressly and in terms assumed and agreed to by the University.

**NINTH.** That for each student of Barnard College pursuing courses in the University in the Senior year leading to a degree, Barnard College shall pay the University at the rate of \$10 an hour per week throughout the year, with a maximum fee of \$120 a year for any one student.

**TENTH.** That the libraries of the University and of Barnard College shall be open upon equal terms to all women students of the University and of Barnard College.

**ELEVENTH.** This Agreement may be modified at any time by mutual consent expressed in writing, and may be terminated at the end of any academic year, after one year's notice in writing from either party to the other.

**TWELFTH.** This agreement shall take effect immediately.





